Spacial Thalassa ClimaSys



Universal Enclosures Catalogue 2017

More than 60 years protecting your equipment

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Life Is On | Schneider Electric

Schneider Electric

Our Universal Enclosures ranges, solutions for each application

PB500005



Spacial
Metal enclosures and boxes

From our small boxes to large suitable floor-standing enclosures, with the Spacial range you can find the perfect fit for your applications. Our extensive range of easy-to-use accessories helps you save time during your projects.

Select between steel or stainless steel to better suit the installation environment. In our stainless-steel offer you can find the optimal solution where cleanliness is required, or for highly corrosive environments.

PB500006



Thalassa
Insulating enclosures

Working in difficult environments can, without the right protection, expose your installation to chemical or aggressive substances. Developed to efficiently protect it; our Thalassa offer, from boxes to floor-standing enclosures, made in fibreglass-reinforced polyester, resists in hard conditions and outdoor applications.

Our Thalassa industrial boxes in ABS or polycarbonate are strong, easy to install and designed to be used in highly demanding environments.

New

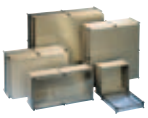
Early 2016, the Thalassa polyester enclosure range changes color

RAL 7032

PB501325-20

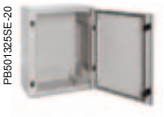


PB500213-20



RAL 7035

PB501325SE-20



PB502791-20



> What products will be affect?
All our Thalassa range of polyester enclosures.

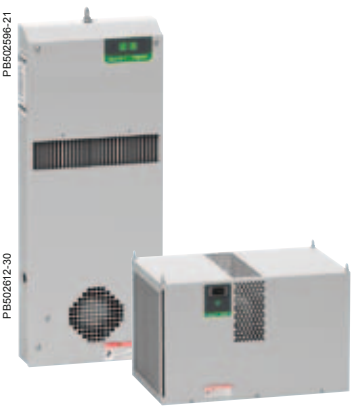
> What happen with the part numbers (references)?
Every product that have changed in colour have also changed the part umber. It is done just adding a letter "G" at the end on reference. *Example:*

RAL 7032	RAL 7035
NSYPLM43	NSYPLM43G

> How can I obtain RAL 7032 enclosures?
Consult us.

PB502596-21

PB502612-30



ClimaSys
Thermal management

Preserving and keeping the right temperature inside your enclosure is vital for maximising the lifetime of your installed devices. With our ClimaSys offer you can find the right solution, be it Ventilation, Cooling or Heating, including control units for temperature, humidity and much more.

Industry and Infrastructure Offer

A material for every environment

PB500013-56



> Solution:
The Spacial range in steel (wall-mounting, monobloc and suitable floor-standing enclosures).

> Steel

Indoor non-clean industrial environment

The industrial environment in mechanical plants is especially demanding as regards the protection of electric and electronic components against dust, splashing with oil and impacts. This environment therefore requires a range that is suited to the applications and easy to implement.

- **Standard range**, for industry.
- **E.M.C. range**, against electromagnetic disturbances (treated with Aluzinc).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

PB500014-55



> Solution:
The Spacial range in stainless steel (wall-mounting, monobloc and suitable floor-standing enclosures).

> 304L - 316L stainless steel

Demanding industrial environment

Food and beverage, pharmaceutical, petrochemical and infrastructure industries are particularly demanding in terms of hygiene and resistance to corrosion.
With two grades of stainless steel:

- **304L stainless steel:**
Resistance to corrosion and cleanability (often used in food production environments).
- **316L stainless steel, also known as "marine stainless steel":**
Very high resistance to corrosion (saline or chlorinated environment).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

PB500015-26



PB500016-48



> Solution:
The Thalassa range (boxes, wall-mounting and floor-standing enclosures).

> Insulating polyester and plastic materials (ABS, polycarbonate)

Infrastructures and industrial environments

Outdoor infrastructures and electrical installations are exposed to direct sunlight, rain, saline mist, extreme temperatures, oil splashes, chemical and corrosive agents.

- **Standard range**, for industry and infrastructures.
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

PB502732-46



PB502733-26



> Solution:
The Thalassa PHD and Spacial S3HD and SFHD ranges (wall-mounting and floor-standing).

> Heavy Duty materials New

Severe outdoor environments, generally requested by OEMs, telecom, water treatment and transportation

- Polyester Heavy Duty is suitable for outdoor public areas thanks to its multiple virtues:
  - pressure and shock resistant (IEC 61439-5: 2010),
  - anti-posting thanks to its special ribbed-surface door,
  - insulated (ready to be Class II according to IEC 61439-1: 2011).
- Steel Heavy Duty enclosures are designed for outdoor private areas:
  - they are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:1999).

Selection tools

PB500009-165



> www.schneider-electric.com

Our web site allows you to access all the Schneider Electric products in just two clicks with direct links to:

- A complete library of technical documents, catalogues, FAQs brochures, etc.
- Certificates.
- 2D & 3D drawings.
- Selection Guides from the e-catalogue.
- Product discovery sites.

DB300835-15

You may also find illustrated overviews, news to which you can subscribe, a list of country contacts and more useful information.

Our software suite

> Digital Rules

Find the accessories that suit your enclosure

The digital rules allow you to select the best components from the current product range. There will be no risk of mistake, since product and accessory selection take place automatically, saving you time and money.

PB500011-38



> ProClima

Find the best thermal solution for your enclosure

Select and calculate your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.

DB300837-21



> Spacial.conf New

Get your enclosure pre-engineered for your special needs

Spacial.conf software gives you total autonomy to configure and quote enclosures with services (cut-outs, painting, accessory mounting) in less than 3 minutes. Spacial.conf is designed for convenient, error-free, and time-saving orders.

Have a smartphone or a tablet? Scan this >

DB300836-15

The customised solutions

Over **50 years** of experience, knowledge and expertise to have the best enclosure solution that meets your needs.

Two offer levels to cover your different requirements

Configured: the enriched standard offer

Feasibility automatically guaranteed by the configurator software Spacial.conf, which gives you autonomy and flexibility to quickly define your customized enclosure.

Committed delivery date.

Specific: the co-developed offer

Special dimensions, accessories and logistic needs. You participate to the whole development process of your "Tailor-made" solution.

According to co-developed specifications.

	Steel	Stainless steel	Insulating material
Boxes	● ○	○	● ○
Wall-mounting	● ○	● ○	● ○
Compact floor-standing	● ○	● ○	● ○
Modular floor-standing	● ○	● ○	● ○

● Configured offers ○ Specific offers

Time saving

Delivered with cut-outs & painting: no waste of time

Logistics

- Flexible management of your logistic option (scheduled delivery service for on-going orders)
- Special packaging

Installation simplified

Enclosures delivered with cut-outs: you don't need special tools

Ergonomic design

Customized project dedicate to your personal concern

PB500518-182



Life time increased

- Cut-outs done before painting guarantees better anti-corrosion/ sealing
- Painting service for better protection

Quality improved

- No burrs on edges of cut-outs
- Guaranteed machining tolerances

Aesthetics

- Large choice of colours
- External surfaces with no scratches

Higher performances

- Adapted thermal management
- Upgraded stainless steel type

Offers overview

Spacial enclosures

Steel

Stainless-steel

Boxes


PB500198-13
PB503351-20

SDB Derivation boxes and small enclosures p. 34
SBM Steel industrial boxes p. 36
- **SBMC** FL21 Entry box p. 36
- **SBMB** Bus box p. 36

Characteristics
- From 85 x 85 x 49 to 400 x 800 x 120 mm
- IP55 or IP66
- Up to IK10

Consult us

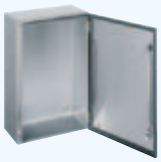
Wall-mounting


PB500066-84

New

S3D Wall-mounting steel p. 48
- **S3D** 19" enclosures p. 401
- **S3DB** Terminal enclosures p. 328
- **S3DBFL** Terminal enclosures with FL21 cut-out p. 328
- **S3DM** Distribution modular enclosures p. 326
- **VDM** 19" enclosures p. 398
- **S3DEX** Potentially explosive atmospheres p. 436
- **S3HF** Electromagnetic compatibility p. 424
- **S3D 6G, S3D 6G K3** Seismic and nuclear enclosures p. 380

Characteristics
- From 300 x 200 x 150 to 1400 x 1000 x 300 mm
- Up to IP66
- Up to IK10


PB500075-42

S3X Wall-mounting p. 120
- **S3XEX** Potentially explosive atmospheres p. 436

Characteristics
- From 300 x 200 x 150 to 1400 x 1000 x 300 mm
- Up to IP66
- Up to IK10

Floor-standing


PB500067-82

SM Floor-standing compact p. 78
- **SMHF** Electromagnetic compatibility p. 425

SF Floor-standing suitable p. 79
- Electronic application p. 404
- Automobile application p. 478
- **SFM** Motor control centers p. 332
- **SFP** Prisma application p. 304
- **SFHF** Electromagnetic compatibility p. 425
- **SF 5G, SFP 5G** Seismic and nuclear enclosures p. 380

Characteristics
- From 1200 x 600 x 300 to 2200 x 1600 x 800 mm
- IP55
- Up to IK10


PB500138-26

SMX Floor-standing monobloc p. 130
SFX Floor-standing suitable p. 130

Characteristics
- From 1200 x 600 x 300 to 2200 x 1600 x 800 mm
- IP66
- Up to IK10

Outdoor


PB502665-21
PB502653-21

New

S3HD Wall-mounting Heavy Duty enclosures p. 366
SFHD Floor-standing Heavy Duty enclosures p. 366

Spacial S3HD and SFHD are engineered to resist aggressive environments (anti-corrosion certification class C4 H, ISO 12.944).

Options
Ventilated plinths, roof ventilation module, slim fanbox, Heavy Duty fixings.

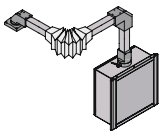
Why should I choose it?
Designed to resist in outdoor private areas.

Characteristics
- From 300 x 200 x 180 to 2000 x 800 x 630 mm
- Up to IP66
- IK10

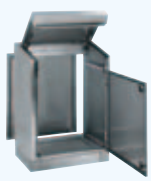
Consult us

Interface

Human-Machine


PB502000-32

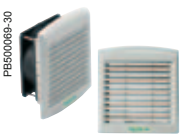
S3CM Control enclosures with suspension system p. 442
SD Compact control desks p. 452
SDF Control desks with console p. 452
SF PC rack p. 468


PB501267-30

SDX Control desk p. 453
SMX PC rack p. 472

ClimaSys

Thermal management


PB500069-30

CV Ventilation Systems p. 490
CA Natural airing p. 508


PB502625-8
PB502618-9

New

CE Exchangers p. 510
CU Cooling Units p. 521


PB502624-10
PB502047-10

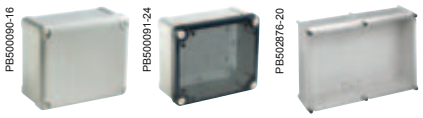
New

CC Thermal Control p. 545
CR Resistance Heaters p. 538

Offers overview

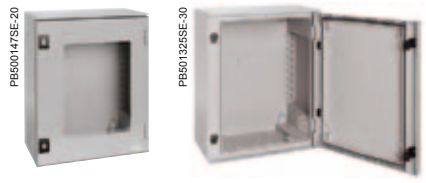
Thalassa enclosures

Insulating materials



PLS Insulating modular boxes p. 154
TBP Polycarbonate industrial boxes p. 140
TBS ABS industrial boxes p. 140

Characteristics
- From 74 x 74 x 54 to 540 x 720 x 230 mm
- Up to IP66
- Up to IK09



PLM Wall-mounting polyester p. 164
• **PLMEX** Potentially explosive atmospheres p. 436

Characteristics
- From 308 x 215 x 160 to 1056 x 852 x 350 mm
- Up to IP66
- Up to IK10



PLA Floor-standing polyester enclosures p. 180
PLD Floor-standing DIN polyester enclosures p. 204

Characteristics
- From 500 x 500 x 320 to 1500 x 1250 x 420 mm
- Up to IP65
- Up to IK10



PHD Polyester Heavy Duty enclosures p. 366

Thalassa PHD has multiple virtues:
- pressure and shock resistant (IEC 61439-5),
- anti-posting thanks to its special front door,
- insulated (Class II).

Options
Anti-burglary accessory, ventilated plinths, roof ventilation module, slim fanbox.

Why should I choose it?
Suitable for harsh environments in outdoor public areas.

Characteristics
- From 500 x 500 x 320 to 2000 x 750 x 420 mm
- Up to IP65
- IK10

Details and technical datasheets available on www.schneider-electric.com

softwares



Digital Rules
Enclosures
selector

New



Spacial.conf
Services
configurator

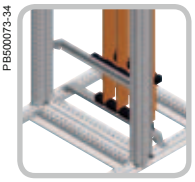


ProClima
Thermal calculation
software

Accessories



Mounting



Power
distribution



New

Cable
management

Project & Services

Configured offer
Adapted services: cut-outs, painting, assemblies…

Specific offer
The co-development service tailor-made for you

Spare Parts



Cable gland plate



Doors



Door accessories



Fixing
hardware



Roof accessories



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Selection guide
Steel industrial boxes

Metallic junction boxes SDB IP55

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	References	References	Height (A)	Width (B)	D	E	F	References	
Low cover models	85	85	49	**NSYDBN88**	**NSYDB88M**	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	**NSYDBN1010**	**NSYDB1010M**	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	**NSYDBN1510**	**NSYDB1510M**	3 n° 1	1 n° 1	124	74	56	**NSYPMD1510**	0.38
	206	156	83	**NSYDBN2015**	**NSYDB2015M**	3 n° 3	2 n° 3	172	122	78	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520**	**NSYDB2520M**	3 n° 4	2 n° 4	220	170	88	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025**	**NSYDB3025M**	2 n° 3, 2 n° 4	3 n° 4	268	218	110	**NSYPMD3025**	3.3
	357	307	136	**NSYDBN3530**	**NSYDB3530M**	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	**NSYPMD3530**	4.8
High cover models	155	105	88	**NSYDAN1510**	**NSYDA1510M**	3 n° 2	1 n° 2	124	74	83	**NSYPMD1510**	0.45
	206	156	122	**NSYDAN2015**	**NSYDA2015M**	3 n° 3	2 n° 3	172	122	121	**NSYPMD2015**	1.2
	256	206	140	**NSYDAN2520**	**NSYDA2520M**	3 n° 4	2 n° 4	220	170	131	**NSYPMD2520**	1.9

Metallic junction boxes SDB IP55

	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	References	D	E	F	G	References	
Low cover models	206	156	83	**NSYDBN2015D**	172	122	78	55	**NSYPMD2015**	1
	256	206	93	**NSYDBN2520D**	220	170	88	55	**NSYPMD2520**	1.5
	307	257	116	**NSYDBN3025D**	268	218	110	55	**NSYPMD3025**	3.3
	357	307	136	**NSYDBN3530D**	318	268	130	55	**NSYPMD3530**	4.8
High cover models	206	156	122	**NSYDAN2015D**	172	122	121	45	**NSYPMD2015**	1.2
	256	206	140	**NSYDAN2520D**	220	170	131	45	**NSYPMD2520**	1.9
	307	257	174	**NSYDAN3025D**	268	218	168	45	**NSYPMD3025**	4
	357	307	210	**NSYDAN3530D**	318	268	204	45	**NSYPMD3530**	5.8

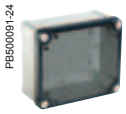
Metallic modular boxes

External dimensions (mm)			SBM range		
Height	Width	Depth	SBM	SBM	SBMB
150	150	80	**NSYSBM15158**	-	-
		120	**NSYSBM151512**	-	-
	200	80	**NSYSBM15208**	-	-
		120	**NSYSBM152012**	-	-
	300	80	**NSYSBM15308**	-	-
		120	**NSYSBM153012**	**NSYSBMC153012**	-
	400	80	**NSYSBM15408**	-	-
		120	**NSYSBM154012**	**NSYSBMC154012**	-
180	130	96	-	-	-
	165	96	-	-	-
200	200	80	**NSYSBM20208**	-	-
		120	**NSYSBM202012**	-	-
	300	80	**NSYSBM20308**	-	-
		120	**NSYSBM203012**	**NSYSBMC203012**	**NSYSBMB203012**
	400	80	**NSYSBM20408**	-	-
		120	**NSYSBM204012**	**NSYSBMC204012**	**NSYSBMB204012**
	500	80	**NSYSBM20508**	-	-
		120	**NSYSBM205012**	-	-
	600	80	**NSYSBM20608**	-	-
		120	**NSYSBM206012**	**NSYSBMC206012**	**NSYSBMB206012**
	800	120	**NSYSBM208012**	**NSYSBMC208012**	**NSYSBMB208012**
230	210	126	-	-	-
300	300	120	**NSYSBM303012**	**NSYSBMC303012**	-
	400	120	**NSYSBM304012**	**NSYSBMC304012**	-
	500	120	**NSYSBM305012**	-	-
	600	120	**NSYSBM306012**	**NSYSBMC306012**	-
	800	120	**NSYSBM308012**	**NSYSBMC308012**	-
400	400	120	**NSYSBM404012**	**NSYSBMC404012**	-
	500	120	**NSYSBM405012**	-	-
	600	120	**NSYSBM406012**	**NSYSBMC406012**	-
	800	120	**NSYSBM408012**	**NSYSBMC408012**	-

Selection guide
Insulating industrial boxes

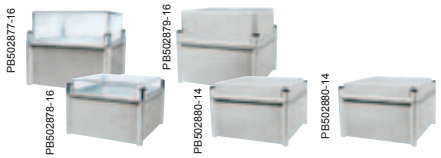
Universal boxes with IP66





Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material			
								ABS IP66 IK07		PC-UL IP66 IK08	
Height	Width	Depth	Height	Width	Depth			Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	NSYTBS1176	-	NSYTBP1176	-
		94	105	65	85	45	40	NSYTBS1179H	-	-	-
	116	62	105	105	55	45	10	NSYTBS11116	-	NSYTBP11116	-
		133	105	105	125	45	80	NSYTBS111113H	-	-	-
138	93	72	125	80	65	45	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
		105	175	105	100	60	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
	164	87	175	150	80	60	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
		105	175	150	100	60	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
		107	225	175	100	80	20	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
		107	225	175	100	60	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
		127	225	175	120	80	40	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
		128	275	225	120	100	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
		128	275	225	120	60	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
		168	275	225	160	100	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
		168	325	275	160	100	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

Modular boxes



Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	NSYPLS1827G	NSYPLSC1827G	NSYPLSP1827G	NSYPLS1827LG	56
270	270	180	NSYPLS2727G	NSYPLSC2727G	NSYPLSP2727G	NSYPLS2727LG	56
		230	NSYPLS2727AG	NSYPLSC2727AG	-	NSYPLS2727ALG	56
	360	180	NSYPLS2736G	NSYPLSC2736G	NSYPLSP2736G	NSYPLS2736LG	56
		230	NSYPLS2736AG	NSYPLSC2736AG	-	NSYPLS2736ALG	56
	540	180	NSYPLS2754G	NSYPLSC2754G	NSYPLSP2754G	NSYPLS2754LG	28
		230	NSYPLS2754AG	NSYPLSC2754AG	-	NSYPLS2754ALG	28
360	360	180	NSYPLS3636G	NSYPLSC3636G	NSYPLSP3636G	NSYPLS3636LG	18
	540	180	NSYPLS3654G	NSYPLSC3654G	NSYPLSP3654G	NSYPLS3654LG	28
		230	NSYPLS3654AG	NSYPLSC3654AG	-	NSYPLS3654ALG	28
	720	230	NSYPLS3672AG	NSYPLSC3672AG	-	NSYPLS3672ALG	27
540	540	180	NSYPLS5454G	NSYPLSC5454G	NSYPLSP5454G	NSYPLS5454LG	14
		230	NSYPLS5454AG	NSYPLSC5454AG	-	NSYPLS5454ALG	14
	720	230	NSYPLS5472AG	NSYPLSC5472AG	-	NSYPLS5472ALG	14

Selection guide
Steel wall-mounting enclosures


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Characteristics						Door			Mounting plate		
Dimensions (mm) (1)			No. of doors	IP	Weight (kg) (2)	Plain		Glazed	Plain	Silkscreened (3)	Microperforated
H	W	D				With mounting plate	Without mounting plate	Without mounting plate			
300	200	150	1	66	3.02	NSYS3D3215P	NSYS3D3215	-	NSYMM32	-	NSYMF32
	250	150	1	66	3.48	NSYS3D32515P	NSYS3D32515	NSYS3D32515T	NSYMM3025	-	-
	300	150	1	66	3.90	NSYS3D3315P	NSYS3D3315	NSYS3D3315T	NSYMM33	-	NSYMF33
		200	1	66	4.50	NSYS3D3320P	NSYS3D3320	NSYS3D3320T	NSYMM33	-	NSYMF33
	400	150	1	66	4.82	NSYS3D3415P	NSYS3D3415	NSYS3D3415T	NSYMM43	NSYMS43	NSYMF43
		200	1	66	5.60	NSYS3D3420P	NSYS3D3420	NSYS3D3420T	NSYMM43	NSYMS43	NSYMF43
400	300	150	1	66	4.90	NSYS3D4315P	NSYS3D4315	NSYS3D4315T	NSYMM43	NSYMS43	NSYMF43
		200	1	66	5.00	NSYS3D4320P	NSYS3D4320	NSYS3D4320T	NSYMM43	NSYMS43	NSYMF43
	400	200	1	66	6.50	NSYS3D4420P	NSYS3D4420	NSYS3D4420T	NSYMM44	NSYMS44	NSYMF44
	600	200	1	66	10.50	NSYS3D4620P	NSYS3D4620	NSYS3D4620T	NSYMM64	NSYMS64	NSYMF64
		250	1	66	12.00	NSYS3D4625P	NSYS3D4625	NSYS3D4625T	NSYMM64	NSYMS64	NSYMF64
500	300	200	1	66	7.50	NSYS3D5320P	NSYS3D5320	NSYS3D5320T	NSYMM53	NSYMS53	NSYMF53
	400	200	1	66	9.30	NSYS3D5420P	NSYS3D5420	NSYS3D5420T	NSYMM54	NSYMS54	NSYMF54
		250	1	66	10.20	NSYS3D5425P	NSYS3D5425	NSYS3D5425T	NSYMM54	NSYMS54	NSYMF54
	500	200	1	66	11.18	NSYS3D5520P	NSYS3D5520	NSYS3D5520T	NSYMM55	NSYMS55	NSYMF55
		250	1	66	12.06	NSYS3D5525P	NSYS3D5525	NSYS3D5525T	NSYMM55	NSYMS55	NSYMF55
600	400	200	1	66	11.00	NSYS3D6420P	NSYS3D6420	NSYS3D6420T	NSYMM64	NSYMS64	NSYMF64
		250	1	66	12.00	NSYS3D6425P	NSYS3D6425	NSYS3D6425T	NSYMM64	NSYMS64	NSYMF64
	500	250	1	66	16.20	NSYS3D6525P	NSYS3D6525	NSYS3D6525T	NSYMM65	-	NSYMF65
	600	200	1	66	14.00	NSYS3D6620P	NSYS3D6620	NSYS3D6620T	NSYMM66	NSYMS66	NSYMF66
		250	1	66	15.00	NSYS3D6625P	NSYS3D6625	NSYS3D6625T	NSYMM66	NSYMS66	NSYMF66
		300	1	66	17.00	NSYS3D6630P	NSYS3D6630	NSYS3D6630T	NSYMM66	NSYMS66	NSYMF66
		400	1	66	19.00	NSYS3D6640P	NSYS3D6640	NSYS3D6640T	NSYMM66	NSYMS66	NSYMF66
	800	300	1	66	25.50	NSYS3D6830P	NSYS3D6830	NSYS3D6830T	NSYMM86	NSYMS86	NSYMF86
700	500	250	1	66	15.00	NSYS3D7525P	NSYS3D7525	NSYS3D7525T	NSYMM75	NSYMS75	NSYMF75
800	600	200	1	66	21.00	NSYS3D8620P	NSYS3D8620	NSYS3D8620T	NSYMM86	NSYMS86	NSYMF86
		250	1	66	23.00	NSYS3D8625P	NSYS3D8625	NSYS3D8625T	NSYMM86	NSYMS86	NSYMF86
		300	1	66	25.00	NSYS3D8630P	NSYS3D8630	NSYS3D8630T	NSYMM86	NSYMS86	NSYMF86
		400	1	66	29.00	NSYS3D8640P	NSYS3D8640	NSYS3D8640T	NSYMM86	NSYMS86	NSYMF86
	800	250	1	66	30.00	NSYS3D8825P	NSYS3D8825	NSYS3D8825T	NSYMM88	-	NSYMF88
		300	1	66	32.00	NSYS3D8830P	NSYS3D8830	NSYS3D8830T	NSYMM88	-	NSYMF88
	1000	300	1	66	38.00	NSYS3D81030P	NSYS3D81030	-	NSYMM108	-	NSYMF108
		300	2	55	43.50	NSYS3D81030DP	NSYS3D81030D	-	NSYMM108	-	NSYMF108
	1200	300	2	55	46.00	NSYS3D81230DP	NSYS3D81230D	-	NSYMM128	-	NSYMF128
1000	600	250	1	66	28.00	NSYS3D10625P	NSYS3D10625	NSYS3D10625T	NSYMM106	-	NSYMF106
		300	1	66	30.60	NSYS3D10630P	NSYS3D10630	NSYS3D10630T	NSYMM106	-	NSYMF106
		400	1	66	33.00	NSYS3D10640P	NSYS3D10640	NSYS3D10640T	NSYMM106	-	NSYMF106
	800	250	1	66	35.00	NSYS3D10825P	NSYS3D10825	NSYS3D10825T	NSYMM108	-	NSYMF108
		300	1	66	38.00	NSYS3D10830P	NSYS3D10830	NSYS3D10830T	NSYMM108	-	NSYMF108
		400	1	66	42.00	NSYS3D10840P	NSYS3D10840	NSYS3D10840T	NSYMM108	-	NSYMF108
	1000	300	1	66	46.00	NSYS3D101030P	NSYS3D101030	NSYS3D101030T	NSYMM1010	-	NSYMF1010
		300	2	55	46.00	NSYS3D101030DP	NSYS3D101030D	NSYS3D101030DT	NSYMM1010	-	NSYMF1010
	1200	300	2	55	53.00	NSYS3D101230DP	NSYS3D101230D	-	NSYMM1210	-	NSYMF1210
		400	2	55	60.00	NSYS3D101240DP	NSYS3D101240D	-	NSYMM1210	-	NSYMF1210
1200	600	300	1	66	37.00	NSYS3D12630P	NSYS3D12630	NSYS3D12630T	NSYMM126	-	NSYMF126
		400	1	66	42.00	NSYS3D12640P	NSYS3D12640	NSYS3D12640T	NSYMM126	-	NSYMF126
	800	300	1	66	45.00	NSYS3D12830P	NSYS3D12830	NSYS3D12830T	NSYMM128	-	NSYMF128
		400	1	66	49.00	NSYS3D12840P	NSYS3D12840	NSYS3D12840T	NSYMM128	-	NSYMF128
	1000	300	1	66	53.00	NSYS3D121030P	NSYS3D121030	NSYS3D121030T	NSYMM1210	-	NSYMF1210
		300	2	55	54.00	NSYS3D121030DP	NSYS3D121030D	NSYS3D121030DT	NSYMM1210	-	NSYMF1210
		400	2	55	61.00	NSYS3D121040DP	NSYS3D121040D	-	NSYMM1210	-	NSYMF1210
	1200	300	2	55	64.00	NSYS3D121230DP	NSYS3D121230D	-	NSYMM1212	-	2 x NSYMF126 +
		400	2	55	90.00	NSYS3D121240DP	NSYS3D121240D	-	NSYMM1212	-	2 x NSYMF126 +
1400	1000	300	2	55	80.00	NSYS3D141030DP	NSYS3D141030D	-	NSYMM1410	-	-

(1) For other dimensions, see our application offer.
(2) Enclosure without mounting plate.
(3) In inverted use, the marking is inverted.

Wall-fixing lugs


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Steel: **NSYAEFPFSC**
Stainless steel: **NSYAEFPFXSC**
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Reinforcement for heavy loads


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Locking accessories


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Characteristics			Mounting plate					Modular mounting plate			
Dimensions (mm)			Telequick	Bakelite	DIN rail chassis	Type	Aluminium vertical rails (4)	Modular chassis		No. of modules	Door cross-rails
H	W	D						DLA Insulated	DLM Steel		
300	200	150	**NSYMR32**	**NSYMB32**	-	-	**NSYMDVR3**	-	-	-	-
	250	150	**NSYMR3025**	**NSYMB3025**	-	-	**NSYMDVR3**	-	-	-	-
	300	150	**NSYMR33**	**NSYMB33**	**NSYMD33**	B	**NSYMDVR3**	-	-	-	-
		200	**NSYMR33**	**NSYMB33**	**NSYMD33**	B	**NSYMDVR3**	-	-	-	-
	400	150	**NSYMR34**	**NSYMB43**	-	-	**NSYMDVR3**	-	-	-	-
		200	**NSYMR34**	**NSYMB43**	-	-	**NSYMDVR3**	-	-	-	-
400	300	150	**NSYMR43**	**NSYMB43**	**NSYMD43**	B	**NSYMDVR4**	-	**NSYDLM24**	24	-
		200	**NSYMR43**	**NSYMB43**	**NSYMD43**	B	**NSYMDVR4**	**NSYDLA24**	**NSYDLM24**	24	-
	400	200	**NSYMR44**	-	-	-	**NSYMDVR4**	-	-	-	**NSYTFPCRN4**
	600	200	**NSYMR46**	**NSYMB64**	-	-	**NSYMDVR4**	-	-	-	**NSYTFPCRN6**
		250	**NSYMR46**	**NSYMB64**	-	-	**NSYMDVR4**	-	-	-	**NSYTFPCRN6**
500	300	200	**NSYMR53**	-	-	-	**NSYMDVR5**	-	-	-	-
	400	200	**NSYMR54**	**NSYMB54**	**NSYMD54**	B	**NSYMDVR5**	**NSYDLA48**	**NSYDLM48**	48	**NSYTFPCRN4**
		250	**NSYMR54**	**NSYMB54**	**NSYMD54**	B	**NSYMDVR5**	-	**NSYDLM48**	48	**NSYTFPCRN4**
	500	200	**NSYMR55**	-	-	-	**NSYMDVR5**	-	-	-	**NSYTFPCRN5**
		250	**NSYMR55**	-	-	-	**NSYMDVR5**	-	-	-	**NSYTFPCRN5**
600	400	200	**NSYMR64**	**NSYMB64**	**NSYMD64**	B	**NSYMDVR6**	**NSYDLA48P**	**NSYDLM48P**	48	**NSYTFPCRN4**
		250	**NSYMR64**	**NSYMB64**	**NSYMD64**	B	**NSYMDVR6**	**NSYDLA48P**	**NSYDLM48P**	48	**NSYTFPCRN4**
	500	250	**NSYMR65**	**NSYMB65**	-	-	**NSYMDVR6**	-	-	-	-
	600	200	**NSYMR66**	-	**NSYMD66**	A	**NSYMDVR6**	-	**NSYDLM84P**	84	**NSYTFPCRN6**
		250	**NSYMR66**	-	**NSYMD66**	A	**NSYMDVR6**	-	**NSYDLM84P**	84	**NSYTFPCRN6**
		300	**NSYMR66**	-	**NSYMD66**	A	**NSYMDVR6**	-	**NSYDLM84P**	84	**NSYTFPCRN6**
		400	**NSYMR66**	-	**NSYMD66**	A	**NSYMDVR6**	-	**NSYDLM84P**	84	**NSYTFPCRN6**
	800	300	**NSYMR68**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR6**	-	-	-	**NSYTFPCRN8**
700	500	250	**NSYMR75**	**NSYMB75**	**NSYMD75**	B	**NSYMDVR7**	**NSYDLA66**	**NSYDLM66**	66	**NSYTFPCRN5**
800	600	200	**NSYMR86**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR8**	**NSYDLA84/NSYDLA112**	**NSYDLM84**	84*	**NSYTFPCRN6**
		250	**NSYMR86**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR8**	**NSYDLA84/NSYDLA112**	**NSYDLM112**	112*	**NSYTFPCRN6**
		300	**NSYMR86**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR8**	**NSYDLA84/NSYDLA112**	**NSYDLM112**	112*	**NSYTFPCRN6**
		400	**NSYMR86**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR8**	**NSYDLA84/NSYDLA112**	**NSYDLM112**	112*	**NSYTFPCRN6**
	800	250	**NSYMR88**	-	-	-	**NSYMDVR8**	-	-	-	**NSYTFPCRN8**
		300	**NSYMR88**	-	-	-	**NSYMDVR8**	-	-	-	**NSYTFPCRN8**
	1000	300	**NSYMR810**	**NSYMB108**	-	-	**NSYMDVR8**	-	-	-	**NSYTFPCRN10**
		300	**NSYMR810**	**NSYMB108**	-	-	**NSYMDVR8**	-	-	-	-
	1200	300	2 x **NSYMR86** +	2 x **NSYMB86** +	2 x **NSYMD86** +	A	**NSYMDVR8**	-	-	-	-
1000	600	250	**NSYMR106**	**NSYMB106**	-	-	**NSYMDVR10**	-	**NSYDLM168**	168	**NSYTFPCRN6**
		300	**NSYMR106**	**NSYMB106**	-	-	**NSYMDVR10**	-	**NSYDLM168**	168	**NSYTFPCRN6**
		400	**NSYMR106**	**NSYMB106**	-	-	**NSYMDVR10**	-	**NSYDLM168**	168	**NSYTFPCRN6**
	800	250	**NSYMR108**	**NSYMB108**	**NSYMD108**	A	**NSYMDVR10**	**NSYDLA234**	**NSYDLM240**	234	**NSYTFPCRN8**
		300	**NSYMR108**	**NSYMB108**	**NSYMD108**	A	**NSYMDVR10**	**NSYDLA234**	**NSYDLM240**	234	**NSYTFPCRN8**
		400	**NSYMR108**	**NSYMB108**	**NSYMD108**	A	**NSYMDVR10**	**NSYDLA234**	**NSYDLM240**	234	**NSYTFPCRN8**
	1000	300	**NSYMR1010** (5)	-	-	-	**NSYMDVR10**	-	-	-	**NSYTFPCRN10**
		300	**NSYMR1010** (5)	-	-	-	**NSYMDVR10**	-	-	-	-
	1200	300	**NSYMR1012** (5)	**NSYMB1210**	-	-	**NSYMDVR10**	-	-	-	-
		400	**NSYMR1012** (5)	**NSYMB1210**	-	-	**NSYMDVR10**	-	-	-	-
1200	600	300	-	-	-	-	**NSYMDVR12**	-	-	-	-
		400	-	-	-	-	**NSYMDVR12**	-	-	-	-
	800	300	**NSYMR128**	-	**NSYMD128**	A	**NSYMDVR12**	-	-	-	**NSYTFPCRN8**
		400	**NSYMR128**	-	**NSYMD128**	A	**NSYMDVR12**	-	-	-	**NSYTFPCRN8**
	1000	300	**NSYMR1210** (5)	**NSYMB1210**	-	-	**NSYMDVR12**	-	-	-	**NSYTFPCRN10**
		300	**NSYMR1210** (5)	**NSYMB1210**	-	-	**NSYMDVR12**	-	-	-	-
		400	**NSYMR1210** (5)	**NSYMB1210**	-	-	**NSYMDVR12**	-	-	-	-
	1200	300	2 x **NSYMR126** +	-	-	-	**NSYMDVR12**	-	-	-	-
		400	2 x **NSYMR126** +	-	-	-	**NSYMDVR12**	-	-	-	-
1400	1000	300	**NSYMR1410** (5)	-	-	-	-	-	-	-	-

*+ Order **NSYCRNGSDR** for double mounting of the mounting plates.*

*(4) Order nuts ref. **NSYAMCSF**. Steel siderail ref. **NSYMDVR12**.*
*(5) When width ≥ 1000 ref. **NSYEMR** is mandatory (see on page 73).*
** Possible assembling to ref. NSYDLM84 or NSYDLM112.*

Door accessories


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Clip-on nuts


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Self-tapping screw


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NSYS13M5HS

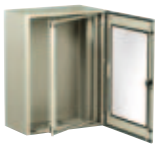
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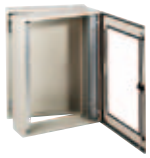
Selection guide
for applicative and customised solutions wall-mounting enclosures


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PB500403-25


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Characteristics					Basic enclosures Empty application enclosures			19" enclosure with glazed door (1)			
Dimensions (mm)			No. of doors	IP	S3DB terminal enclosures	S3DBFL terminal enclosures with FL21 cut-out	S3DM modular enclosures with glazed door	VDM steel enclosures with 19" swing rack	No. of U	1-body 19" fixed rack	No. of U
H	W	D			Page 329	Page 329	Page 327	Page 398		Page 398	
200	300	150	1	66	-	-	-	-	-	-	-
250	300	150	1	66	**NSYS3DB25315**	-	-	-	-	-	-
	400	150	1	66	**NSYS3DB25415**	-	-	-	-	-	-
	500	150	1	66	**NSYS3DB25515**	-	-	-	-	-	-
300	300	150	1	66	**NSYS3DB3315**	-	-	-	-	-	-
		170	1	66	-	**NSYS3DBFL3317**	-	-	-	-	-
	400	150	1	66	**NSYS3DB3415**	-	-	-	-	-	-
		170	1	66	-	**NSYS3DBFL3417**	-	-	-	-	-
	500	150	1	66	**NSYS3DB3515**	-	-	-	-	-	-
		200	1	66	-	-	-	-	-	-	-
	600	150	1	66	**NSYS3DB3615**	-	-	-	-	-	-
		400	1	66	-	-	-	**NSYVDM4U4P**	4	**NSYVDM5U4F**	5
		500	1	66	-	-	-	-	-	-	-
400	300	150	1	66	**NSYS3DB4315**	-	**NSYS3DM4315T**	-	-	-	-
		170	1	66	-	**NSYS3DBFL4317**	-	-	-	-	-
	600	400	1	66	-	-	-	**NSYVDM7U4P**	7	**NSYVDM8U4F**	8
		500	1	66	-	-	-	-	-	-	-
	800	150	1	66	**NSYS3DB4815**	-	-	-	-	-	-
500	400	150	1	66	**NSYS3DB5415**	-	**NSYS3DM5415T**	-	-	-	-
	600	400	1	66	-	-	-	**NSYVDM9U4P**	9	**NSYVDM10U4F**	10
		500	1	66	-	-	-	-	-	-	-
600	400	150	1	66	**NSYS3DB6415**	-	**NSYS3DM6415T**	-	-	-	-
	600	150	1	66	-	-	**NSYS3DM6615T**	-	-	-	-
700	500	150	1	66	-	-	-	-	-	-	-
		150	1	66	-	-	**NSYS3DM7515T**	-	-	-	-
	600	400	1	66	-	-	-	**NSYVDM13U4P**	13	**NSYVDM14U4F**	14
		500	1	66	-	-	-	-	-	-	-
800	600	150	1	66	-	-	-	-	-	-	-
		150	1	66	-	-	**NSYS3DM8615T**	-	-	-	-
		400	1	66	-	-	-	**NSYVDM16U4P**	16	**NSYVDM17U4F**	17
		500	1	66	-	-	-	-	-	-	-
1000	600	150	1	66	-	-	**NSYS3DM10615T**	-	-	-	-
	800	150	1	66	-	-	**NSYS3DM10815T**	-	-	-	-

(1) Plain door, please consult us.

Wall-fixing brackets


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Steel: **NSYAEFPFSC**
Stainless steel: **NSYAEFPFXSC**
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Reinforcement for heavy loads


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Cable gland


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PB500102-15


PB500105-15

Characteristics					Basic enclosures 19″ enclosure with glazed door (1)		Accessories Electricity distribution		Automatism			
Dimensions (mm)			No. of doors	IP	2 parts with 19″ fixed rack	No. of U	Modular mounting chassis (metallic)	No. of modules	DIN rail support and DIN rail	Plain mounting plate	Telequick mounting plate	Aluminium vertical rails
H	W	D			Page 398		Page 246			Page 212	Page 212	Page 217
200	300	150	1	66	-	-	-	-	NSYAMRD2030	NSYMM32	-	-
250	300	150	1	66	-	-	-	-	NSYAMRD2530	NSYMM3025	-	-
	400	150	1	66	-	-	-	-	NSYAMRD2540	NSYMM2540	-	-
	500	150	1	66	-	-	-	-	NSYAMRD2550	NSYMM2550	-	-
300	300	150	1	66	-	-	-	-	NSYAMRD3030	NSYMM33	NSYMR33	NSYMDVR3
		170	1	66	-	-	-	-	NSYAMRD3030	NSYMM33	NSYMR33	-
	400	150	1	66	-	-	-	-	NSYAMRD3040	NSYMM43	NSYMR34	NSYMDVR3
		170	1	66	-	-	-	-	NSYAMRD3040	NSYMM43	NSYMR34	-
	500	150	1	66	-	-	-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
		200	1	66	-	-	-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
	600	150	1	66	-	-	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
		400	1	66	NSYVD2M5U4	5	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
		500	1	66	NSYVD2M5U5	5	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
400	300	150	1	66	-	-	NSYDLM24	24	NSYAMRD43	NSYMM43	NSYMR43	NSYMDVR4
		170	1	66	-	-	-	-	NSYAMRD43	NSYMM43	NSYMR43	-
	600	400	1	66	NSYVD2M8U4	8	-	-	-	NSYMM64	NSYMR46	NSYMDVR4
		500	1	66	NSYVD2M8U5	8	-	-	NSYAMRD48	NSYMM64	NSYMR46	NSYMDVR4
	800	150	1	66	-	-	-	-	NSYAMRD54	NSYMM48	-	NSYMDVR4
500	400	150	1	66	-	-	NSYDLM48	48	-	NSYMM54	NSYMR54	NSYMDVR5
	600	400	1	66	NSYVD2M10U4	10	-	-	-	NSYMM65	-	NSYMDVR5
		500	1	66	NSYVD2M10U5	10	-	-	-	NSYMM65	-	NSYMDVR5
600	400	150	1	66	-	-	NSYDLM48P	48	NSYAMRD64	NSYMM64	NSYMR64	NSYMDVR6
	600	150	1	66	-	-	NSYDLM84P	84	-	NSYMM66	NSYMR66	NSYMDVR6
700	500	150	1	66	-	-	NSYDLM66	66	-	NSYMM75	NSYMR75	NSYMDVR7
		150	1	66	-	-	NSYDLM88	88	-	NSYMM75	NSYMR75	NSYMDVR7
	600	400	1	66	NSYVD2M14U4	14	-	-	-	-	-	NSYMDVR7
		500	1	66	NSYVD2M14U5	14	-	-	-	-	-	NSYMDVR7
800	600	150	1	66	-	-	NSYDLM84	84	-	NSYMM86	NSYMR86	NSYMDVR8
		150	1	66	-	-	NSYDLM112	112	-	NSYMM86	NSYMR86	NSYMDVR8
		400	1	66	NSYVD2M17U4	17	-	-	-	NSYMM86	NSYMR86	NSYMDVR8
		500	1	66	NSYVD2M17U5	17	-	-	-	NSYMM86	NSYMR86	NSYMDVR8
1000	600	150	1	66	-	-	NSYDLM168	168	-	NSYMM106	NSYMR106	NSYMDVR10
	800	150	1	66	-	-	NSYDLM240	234	-	NSYMM108	NSYMR108	NSYMDVR10

Other cable entries


PB500106-18


PB500023-19

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Clip-on nuts


PB500107-17

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Self-tapping screw

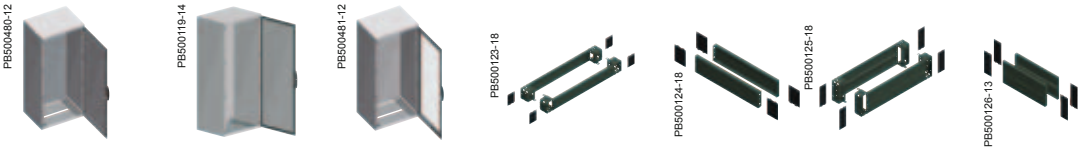

PB500108-16

NSYS13M5HS

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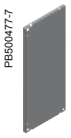
Characteristics				Door			Plinth			
Dimensions (mm)			No. of doors	Plain		Transparent	Height 100 mm		Height 200 mm	
H (A)	W (B)	D (C)		With mounting plate	Without mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.
1200	800	300	1	NSYSM12830P	NSYSM12830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
	1000	300	2	NSYSM1210302DP	NSYSM1210302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
	1200	400	2	NSYSM1212402DP	NSYSM1212402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1400	600	300	1	NSYSM14630P	NSYSM14630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM14640P	NSYSM14640	-	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
	800	300	1	NSYSM14830P	NSYSM14830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM14840P	NSYSM14840	NSYSM14840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
	1000	400	2	NSYSM1410402DP	NSYSM1410402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
	1200	400	2	NSYSM1412402DP	NSYSM1412402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1600	600	300	1	NSYSM16630P	NSYSM16630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM16640P	NSYSM16640	NSYSM16640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
	800	300	1	NSYSM16830P	NSYSM16830	NSYSM16830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM16840P	NSYSM16840	NSYSM16840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
	1000	300	2	NSYSM1610302DP	NSYSM1610302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
		400	2	NSYSM1610402DP	NSYSM1610402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
	1200	300	2	NSYSM1612302DP	NSYSM1612302D	-	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200
		400	2	NSYSM1612402DP	NSYSM1612402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1800	600	300	1	NSYSM18630P	NSYSM18630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM18640P	NSYSM18640	NSYSM18640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
		500	1	NSYSM18650P	NSYSM18650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM18830P	NSYSM18830	NSYSM18830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM18840P	NSYSM18840	NSYSM18840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
		500	1	NSYSM18850P	NSYSM18850	NSYSM18850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
		600	1	NSYSM18860P	NSYSM18860	-	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
	1000	400	1	NSYSM181040P	NSYSM181040	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		400	2	NSYSM1810402DP	NSYSM1810402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		500	2	NSYSM1810502DP	NSYSM1810502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
	1200	400	2	NSYSM1812402DP	NSYSM1812402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
		500	2	NSYSM1812502DP	NSYSM1812502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
	1600	400	2	NSYSM1816402DP	NSYSM1816402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
		500	2	NSYSM1816502DP	NSYSM1816502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200
2000	600	300	1	NSYSM20630P	NSYSM20630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM20640P	NSYSM20640	NSYSM20640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
		500	1	NSYSM20650P	NSYSM20650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM20830P	NSYSM20830	NSYSM20830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM20840P	NSYSM20840	NSYSM20840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
		500	1	NSYSM20850P	NSYSM20850	NSYSM20850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
		600	1	NSYSM20860P	NSYSM20860	NSYSM20860T	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
	1000	400	2	NSYSM2010402DP	NSYSM2010402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		500	2	NSYSM2010502DP	NSYSM2010502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
	1200	400	2	NSYSM2012402DP	NSYSM2012402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
		500	2	NSYSM2012502DP	NSYSM2012502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
		600	2	NSYSM2012602DP	NSYSM2012602D	-	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200
	1600	400	2	NSYSM2016402DP	NSYSM2016402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
		500	2	NSYSM2016502DP	NSYSM2016502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200
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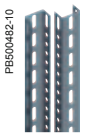
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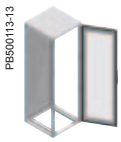
Characteristics				Inner door	Mounting plate	Vertical uprights		Off-centre 19" swing rack	Centred 19" swing rack
Dimensions (mm)			No. of doors			Standard	Technical		
H (A)	W (B)	D (C)							
1200	800	300	1	-	NSYMP128	-	NSYTVR12	-	-
	1000	300	2	-	NSYMP1210	-	NSYTVR12	-	-
	1200	400	2	-	NSYMP1212	-	NSYTVR12	-	-
1400	600	300	1	-	NSYMP146	-	NSYTVR14	-	-
		400	1	-	NSYMP146	-	NSYTVR14	-	-
	800	300	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
		400	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
	1000	400	2	-	NSYMP1410	-	NSYTVR14	-	-
	1200	400	2	-	NSYMP1412	-	NSYTVR14	-	-
1600	600	300	1	NSYID166	NSYMP166	-	NSYTVR16	-	-
		400	1	NSYID166	NSYMP166	-	NSYTVR16	-	-
	800	300	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
		400	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
	1000	300	2	-	NSYMP1610	-	NSYTVR16	-	-
		400	2	-	NSYMP1610	-	NSYTVR16	-	-
	1200	300	2	-	NSYMP1612	-	NSYTVR16	-	-
		400	2	-	NSYMP1612	-	NSYTVR16	-	-
1800	600	300	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		400	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		500	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
	800	300	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		400	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		500	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		600	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
	1000	400	1	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
		400	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
		500	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
	1200	400	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
		500	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
	1600	400	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
		500	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
2000	600	300	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		400	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		500	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
	800	300	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		400	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		500	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		600	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	1000	400	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
		500	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
	1200	400	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
		500	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
		600	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
	1600	400	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
		500	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
		600	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-

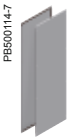
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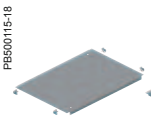
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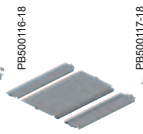


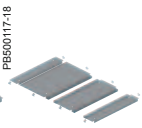










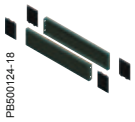


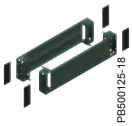
Nominal dimensions (mm)			No. of doors	Door			Side panels	Cable-entry plate		
				Plain		Transparent				
Height (A)	Width (B)	Depth (C)		With mounting plate	Without mounting plate	Without mounting plate		Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640P	NSYSF12640	-	NSY2SP124	NSYEC64	NSYEC641	-
		600	1	NSYSF12660P	NSYSF12660	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
	800	400	1	NSYSF12840P	NSYSF12840	-	NSY2SP124	NSYEC84	NSYEC841	-
		600	1	NSYSF12860P	NSYSF12860	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1400	600	400	1	NSYSF14640P	NSYSF14640	-	NSY2SP144	NSYEC64	NSYEC641	-
	800	400	1	NSYSF14840P	NSYSF14840	-	NSY2SP144	NSYEC84	NSYEC841	-
1600	600	600	1	NSYSF16660P	NSYSF16660	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF16680P	NSYSF16680	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
	800	600	1	NSYSF16860P	NSYSF16860	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF16880P	NSYSF16880	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1800	400	400	1	-	NSYSF18440	-	NSY2SP184	NSYEC44	NSYEC441	-
		500	1	-	NSYSF18450	-	NSY2SP185	NSYEC45	NSYEC451	-
		600	1	-	NSYSF18460	-	NSY2SP186	-	NSYEC461	-
	600	400	1	NSYSF18640P	NSYSF18640	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
		500	1	NSYSF18650P	NSYSF18650	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
		600	1	NSYSF18660P	NSYSF18660	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
		800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
	800	400	1	NSYSF18840P	NSYSF18840	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
		500	1	NSYSF18850P	NSYSF18850	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
		600	1	NSYSF18860P	NSYSF18860	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
		600	2	NSYSF188602DP	NSYSF188602D	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
	1000	400	1	NSYSF181040P	NSYSF181040	-	NSY2SP184	NSYEC104	NSYEC1041	-
		400	2	NSYSF1810402DP	NSYSF1810402D	-	NSY2SP184	NSYEC104	NSYEC1041	-
		500	1	NSYSF181050P	NSYSF181050	-	NSY2SP185	NSYEC105	NSYEC1051	-
		600	1	NSYSF181060P	NSYSF181060	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
		600	2	NSYSF1810602DP	NSYSF1810602D	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
	1200	400	2	NSYSF1812402DP	NSYSF1812402D	-	NSY2SP184	NSYEC124	NSYEC1241	-
		500	2	NSYSF1812502DP	NSYSF1812502D	-	NSY2SP185	NSYEC125	NSYEC1251	-
		600	2	NSYSF1812602DP	NSYSF1812602D	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
2000	300	500	1	-	NSYSF20350	-	NSY2SP205	NSYEC35	NSYEC351	-
		600	1	-	NSYSF20360	-	NSY2SP206	NSYEC36	NSYEC361	-
		800	1	-	NSYSF20380	-	NSY2SP208	-	NSYEC381	-
	400	400	1	-	NSYSF20440	-	NSY2SP204	NSYEC44	NSYEC441	-
		500	1	-	NSYSF20450	-	NSY2SP205	NSYEC45	NSYEC451	-
		600	1	-	NSYSF20460	-	NSY2SP206	NSYEC64	NSYEC461	-
		800	1	-	NSYSF20480	-	NSY2SP208	NSYEC84	NSYEC481	-
	600	400	1	NSYSF20640P	NSYSF20640	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
		500	1	NSYSF20650P	NSYSF20650	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
		600	1	NSYSF20660P	NSYSF20660	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF20680P	NSYSF20680	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
	800	400	1	NSYSF20840P	NSYSF20840	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
		500	1	NSYSF20850P	NSYSF20850	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
		600	1	NSYSF20860P	NSYSF20860	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		600	2	NSYSF208602DP	NSYSF208602D	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF20880P	NSYSF20880	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
	1000	400	1	NSYSF201040P	NSYSF201040	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
		400	2	NSYSF2010402DP	NSYSF2010402D	-	NSY2SP204	NSYEC104	NSYEC1041	-
		500	1	NSYSF201050P	NSYSF201050	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
		500	2	NSYSF2010502DP	NSYSF2010502D	-	NSY2SP205	NSYEC105	NSYEC1051	-
		600	1	NSYSF201060P	NSYSF201060	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		600	2	NSYSF2010602DP	NSYSF2010602D	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		800	1	NSYSF201080P	NSYSF201080	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
	1200	400	2	NSYSF2012402DP	NSYSF2012402D	-	NSY2SP204	NSYEC124	NSYEC1241	-
		500	2	NSYSF2012502DP	NSYSF2012502D	-	NSY2SP205	NSYEC125	NSYEC1251	-
		600	2	NSYSF2012602DP	NSYSF2012602D	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262
		800	2	NSYSF2012802DP	NSYSF2012802D	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282
	1600	400	2	NSYSF2016402DP	NSYSF2016402D	-	NSY2SP204	NSYEC164	NSYEC1641	-
		500	2	NSYSF2016502DP	NSYSF2016502D	-	NSY2SP205	NSYEC165	NSYEC1651	-
		600	2	NSYSF2016602DP	NSYSF2016602D	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	-	NSYSF22460	-	NSY2SP226	-	NSYEC461	-
	600	600	1	NSYSF22660P	NSYSF22660	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF22680P	NSYSF22680	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
	800	600	1	NSYSF22860P	NSYSF22860	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF22880P	NSYSF22880	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
	1000	600	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
	1200	600	2	NSYSF2212602DP	NSYSF2212602D	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
		800	2	NSYSF2212802DP	NSYSF2212802D	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

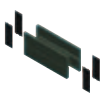
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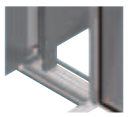

PB500123-18


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PB500126-13


PB500477-7


PB500512-16


PB500482-10

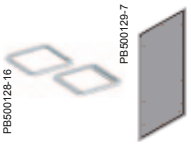

PB500483-13

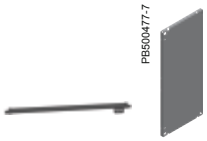
Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Vertical uprights	
			Height 100 mm		Height 200 mm				Standard	Technical
Height (A)	Width (B)	Depth (C)	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.				
1200	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
1400	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
1600	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16
1800	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR18	NSYTVR18
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR18	NSYTVR18
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR18	NSYTVR18
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
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2000	300	500	NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR20	NSYTVR20
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
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		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF10100	NSYSPS8100	NSYSPF10200	NSYSPS8200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
	1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
	1600	400	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
2200	400	600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR22	NSYTVR22
	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
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		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
	1000	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2210	NSYSIMP22	NSYVR22	NSYTVR22
	1200	600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22

Selection guide
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SF kit







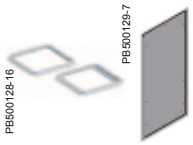
Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
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1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
		500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
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		500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYTRIM4SF	-
		600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYTRIM4SF	-
		800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYTRIM4SF	-
	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
		800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
		500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
		800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
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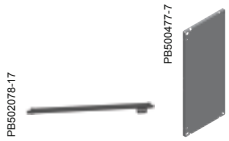
(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

Selection guide
Steel floor-standing enclosures

SF kit







Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	NSYTRIM3SF	-
		600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	NSYTRIM3SF	-
		800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	NSYTRIM3SF	-
	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYTRIM4SF	-
		500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYTRIM4SF	-
		600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYTRIM4SF	-
		800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYTRIM4SF	-
	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
		800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
		500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
		600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	NSYTRIM4SF	-
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		500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

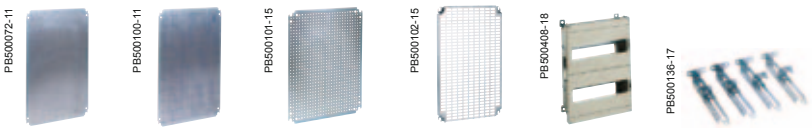
Selection guide
Stainless-steel wall-mounting enclosures



Dimensions (mm)			No. of locks	No. of doors	304L stainless-steel		316L stainless-steel	304L stainless-steel canopy	Plain mounting plate***
Height	Width	Depth			Plain door	Glazed door**	Plain door		
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H	NSYTX2015	NSYMM32
	250	150	1	1	NSYS3X302515	-	NSYS3X302515H	NSYTX2515	NSYMM3025
	300	150	1	1	NSYS3X3315	-	NSYS3X3315H	NSYTX3015	NSYMM33
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H	NSYTX3015	NSYMM43
		200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H	NSYTX3020	NSYMM43
	400	200	1	1	NSYS3X4420	-	NSYS3X4420H	NSYTX4020	NSYMM44
	600	200	1	1	NSYS3X4620	-	NSYS3X4620H	NSYTX6020	NSYMM64
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H	NSYTX4020	NSYMM54
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H	NSYTX4020	NSYMM64
	600	250	2	1	NSYS3X6625	-	NSYS3X6625H	NSYTX6025	NSYMM66
	1000	300	*	2	NSYS3X601030	-	-	-	-
	1200	300	*	2	NSYS3X601230	-	-	NSYTX12030	-
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H	NSYTX5025	NSYMM75
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H	NSYTX6025	NSYMM86
	800	300	2	1	NSYS3X8830	-	NSYS3X8830H	NSYTX8030	NSYMM88
	1000	300	*	2	NSYS3X801030	-	-	-	-
	1200	300	*	2	NSYS3X801230	-	-	NSYTX12030	-
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H	NSYTX8030	NSYMM108
	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H	NSYTX10030	NSYMM1010
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H	NSYTX8030	NSYMM128
	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H	NSYTX10030	NSYMM1210

** Three-point closure system.*
*** The glazed door has no reinforcement.*
**** See other mounting plates in common accessoires.*

Selection guide for wall-mounting enclosures and main accessories

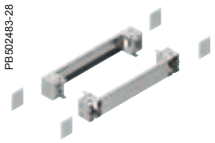


External dimensions (mm)			No. of modules	References					
Height	Width	Depth		Mounting plate					Step slides
				Plain	Silkscreened	Microperforated	Telequick	Modular	
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
500	400	200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
	600	250	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
	1000	300	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
	1200	300	-	NSYMM126	-	NSYMF126	-	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
800	600	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
	800	300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
	1000	300	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
	1200	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
	1000	300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

Selection guide
Stainless-steel floor-standing enclosures




Stainless-steel floor-standing monobloc


Plinth height 100 mm (4 corners + front and back)


Plinth height 100 mm (Set of 2 side panels)

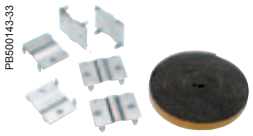
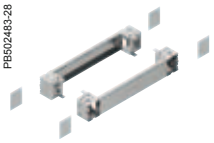


Dimensions (mm)			Number of front doors	Stainless-steel floor-standing enclosure 304L / 316L*	Brushed 304L / 316L* stainless-steel plinth height 100 mm**		Brushed 304L / 316L* stainless-steel plinth height 200 mm**		Plain mounting plate***
Height	Width	Depth			Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	
1400	1000	300	2	NSYSMX141030	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYMP1410
1600	800	400	1	NSYSMX16840	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYMP168
1800	600	400	1	NSYSMX18640	-	NSYSPSX4100	-	NSYSPSX4200	NSYMP186
	800	400	1	NSYSMX18840*	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYMP188
	1200	400	2	NSYSMX181240*	NSYSPFX12100	NSYSPSX4100	NSYSPFX12200	NSYSPSX4200	NSYMP1812
	1600	400	2	NSYSMX181640*	NSYSPFX16100	NSYSPSX4100	NSYSPFX16200	NSYSPSX4200	NSYMP1816
2000	800	500	1	NSYSMX20850	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	NSYSPSX5200	NSYMP208
	1000	400	2	NSYSMX201040*	NSYSPFX10100	NSYSPSX4100	NSYSPFX10200	NSYSPSX4200	NSYMP2010
	1200	500	2	NSYSMX201250*	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	NSYSPSX5200	NSYMP2012
	1600	600	2	NSYSMX201660*	NSYSPFX16100	NSYSPSX6100	NSYSPFX16200	NSYSPSX6200	NSYMP2016

** For version in AISI 316L stainless steel, add the lettre H to the end of the reference. Example NSYSMX18840H.*
*** See section on stainless-steel composition accessories. - *** See other mounting plates in common accessories.*




Stainless-steel floor-standing suitable



Plinth height 100 mm (4 corners + front and back)


Plinth height 100 mm (Set of 2 side panels)



Dimensions (mm)			No. of front doors	References in 304L stainless steel (1)			Brushed 304L stainless-steel plinth height 100 mm (2)		Brushed 304L stainless-steel plinth height 200 mm (2)		Plain mounting plate (3)
H	W	D		Suitable enclosure	Set of 2 side panels	Coupling kit	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Side Set of 2 side panels (x2)	
1800	600	400	1	NSYSFX18640	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX6100	NSYSPSX4100SF	NSYSPFX6200	NSYSPSX4200SF	NSYMP186
	800	400	1	NSYSFX18840	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP188
	1200	400	2	NSYSFX181240	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX12100	NSYSPSX4100SF	NSYSPFX12200	NSYSPSX4200SF	NSYMP1812
2000	600	500	1	NSYSFX20650	NSY2SPX205	NSYSFBK19 + NSYSFXJG	NSYSPFX6100	NSYSPSX5100SF	NSYSPFX6200	NSYSPSX5200SF	NSYMP206
	800	400	1	NSYSFX20840	NSY2SPX204	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP208
		600	1	NSYSFX20860	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX6100SF	NSYSPFX8200	NSYSPSX6200SF	NSYMP208
	1000	600	2	NSYSFX201060	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX10100	NSYSPSX6100SF	NSYSPFX10200	NSYSPSX6200SF	NSYMP2010
	1200	600	2	NSYSFX201260	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX12100	NSYSPSX6100SF	NSYSPFX12200	NSYSPSX6200SF	NSYMP2012

(1) 316L stainless-steel enclosures on request.- (2) See section on stainless-steel composition accessories.- (3) See other mounting plates in common accessories.



Stainless-steel floor-standing suitable


Plinth height 100 mm (Front and rear)


Plinth height 100 mm (Side panels)



Dimensions (mm)			References	Number of front doors	304L stainless-steel plinth, height 100 mm (1)		304L stainless-steel plinth, height 200 mm (1)		Plain mounting plate (2)
Height	Width	Depth			Front and rear	side panels	Front and rear	side panels	
1000	600	500	NSYSDX6	1	NSYSPFX6100	NSYSPSX5100	NSYSPFX6200	2 x NSYSPSX5100	NSYPMP8560
	800	500	NSYSDX8	1	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	2 x NSYSPSX5100	NSYPMP8580
	1000	500	NSYSDX10	2	NSYSPFX10100	NSYSPSX5100	NSYSPFX10200	2 x NSYSPSX5100	NSYPMP85100
	1200	500	NSYSDX12	2	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	2 x NSYSPSX5100	NSYPMP85120

(1) See section on stainless-steel composition accessories. - (2) See other mounting plates in common accessories.

Stainless-steel plinths compatible with steel offer.

Selection guide
Polyester wall-mounting enclosures

Polyester wall-mounting enclosures IP66





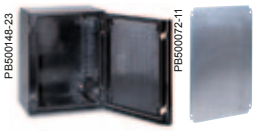




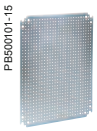


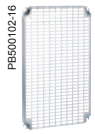
Dimensions (mm)			ABS/PC wall-mounting enclosures IP66		Polyester wall-mounting enclosures IP66			
Height	Width	Depth	Plain door	Transp. door	Plain door	Transp. door	Plain door 3-point closure	Transp. door 3-point closure
			Page 165					
310	215	160	NSYPLM32G	NSYPLM32TG	-	-	-	-
308	255	160	-	-	NSYPLM3025G	NSYPLM3025TG	-	-
430	330	200	-	-	NSYPLM43G	NSYPLM43TG	NSYPLM43VG	NSYPLM43TVG
530	430	200	-	-	NSYPLM54G	NSYPLM54TG	NSYPLM54VG	NSYPLM54TVG
647	436	250	-	-	NSYPLM64G	NSYPLM64TG	NSYPLM64VG	NSYPLM64TVG
747	536	300	-	-	NSYPLM75G	NSYPLM75TG	NSYPLM75VG	NSYPLM75TVG
847	636	300	-	-	NSYPLM86G	NSYPLM86TG	NSYPLM86VG	NSYPLM86TVG
1056	852	350	-	-	NSYPLM108G	NSYPLM108TG	-	-

Polyester wall-mounting PLMEX and accessories













Dimensions (mm)			ATEX solution	Metallic mounting plate				Step slides	Padlocking
Height	Width	Depth	References	Plain	Silkscreened	Microperforated	Telequick	References	
308	255	160	NSYPLMEX3025	NSYMM3025	-	-	NSYMR3025	-	-
430	330	200	NSYPLMEX43	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDPLM200	NSYKPLM
530	430	200	NSYPLMEX54	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDPLM200	NSYKPLM
647	436	250	NSYPLMEX64	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDPLM250	NSYKPLM
747	536	300	NSYPLMEX75	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDPLM300	NSYKPLM
847	636	300	NSYPLMEX86	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDPLM300	NSYKPLM
1056	852	350	NSYPLMEX108	NSYMM108	-	NSYMF108	NSYMR108	NSYDPLM350	NSYBCPL

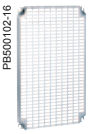
Selection guide
Polyester wall-mounting enclosures

Mounting accessories















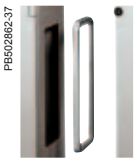


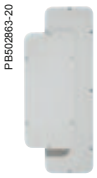
Dimensions (mm)			Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
Height	Width	Depth	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
			Page 212				Page 213		Page 176	Page 174	
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18G	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24G	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48G	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48PG	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66G and NSYDLA88G	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84G and NSYDLA112G	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234G	NSYDPLM350	NSYCS800PLM

Main accessories















Dimensions (mm)			Fixing lugs	Post-fixing device	Floor-mounting pillar	Coupling frame	Cable-gland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
Height	Width	Depth	Page 170			Page 171			Page 170	Page 169
310	215	160	NSYPFPLM32G	-	-	-	-	-	NSYCEPLMAG	-
308	255	160	NSYPFPLMG	-	-	-	-	NSYPA3025PLMG	-	-
430	330	200	NSYPFPLMG	NSYSFP300	-	-	-	NSYPAP43G	NSYCEPLMBG	-
530	430	200	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP54G	NSYCEPLMBG	-
647	436	250	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP64G	NSYCEPLMCG	-
747	536	300	NSYPFPLMG	NSYSFP500	-	NSYBUPLMG	NSYTLA4420G	NSYPAP75G	NSYCEPLMCG	NSYZM253G
847	636	300	NSYPFPLMG	NSYSFP600	-	NSYBUPLMG	NSYTLA4420G	NSYPAP86G	NSYCEPLMCG	NSYZM263G
1056	852	350	NSYPFPLMG	-	-	NSYBU108PLMG	NSYTLA6420G	NSYPAP108G	-	NSYZM283G

Water drain plug
Page 175


Rail-fixing nuts
Page 174


Ventilation louvre
Page 175


Selection guide
Polyester floor-standing enclosures







Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54
References of enclosures with door						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Glazed	Plain
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G
		420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G
	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G
		420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G
	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G
		420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G
	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G
		420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G
750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
		420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
	750	320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G
		420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G
		620*	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G
	1000	320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G
		420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G
	1250	320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G
		420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G
1000	500	320	1	NSYPLA1053G	NSYPLA1053TG	NSYPLAZ1053G
		420	1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G
	750	320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G
		420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G
	1000	320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G
		420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G
	1250	320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G
		420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G
1250	500	320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G
		420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
	750	320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
		420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G
		620*	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G
	1000	320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G
		420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G
	1250	320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G
		420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G
		620*	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G
1500	500	320	1	NSYPLA1553G	NSYPLA1553TG	NSYPLAZ1553G
		420	1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G
	750	320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G
		420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G
		620*	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G
	1000	320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G
		420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G
	1250	320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G
		420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G
		620*	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G
2000*	750	420	2**	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

** Dimensions available after second half of 2016.*
*** Two doors in vertical.*

Selection guide
Polyester floor-standing enclosures





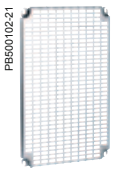
Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44
References of enclosures with door					
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Plain
500	500	320	1	NSYPLAT553G	NSYPLAZT553G
		420	1	NSYPLAT554G	NSYPLAZT554G
	750	320	1	NSYPLAT573G	NSYPLAZT573G
		420	1	NSYPLAT574G	NSYPLAZT574G
	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G
		420	2	NSYPLAT5104G	NSYPLAZT5104G
	1250	320	2	NSYPLAT5123G	NSYPLAZT5123G
		420	2	NSYPLAT5124G	NSYPLAZT5124G
750	500	320	1	NSYPLAT753G	NSYPLAZT753G
		420	1	NSYPLAT754G	NSYPLAZT754G
	750	320	1	NSYPLAT773G	NSYPLAZT773G
		420	1	NSYPLAT774G	NSYPLAZT774G
		620*	1	NSYPLAT776G	NSYPLAZT776G
	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G
		420	2	NSYPLAT7104G	NSYPLAZT7104G
	1250	320	2	NSYPLAT7123G	NSYPLAZT7123G
		420	2	NSYPLAT7124G	NSYPLAZT7124G
1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
		420	1	NSYPLAT1054G	NSYPLAZT1054G
	750	320	1	NSYPLAT1073G	NSYPLAZT1073G
		420	1	NSYPLAT1074G	NSYPLAZT1074G
	1000	320	2	NSYPLAT10103G	NSYPLAZT10103G
		420	2	NSYPLAT10104G	NSYPLAZT10104G
	1250	320	2	NSYPLAT10123G	NSYPLAZT10123G
		420	2	NSYPLAT10124G	NSYPLAZT10124G
1250	500	320	1	NSYPLAT1253G	NSYPLAZT1253G
		420	1	NSYPLAT1254G	NSYPLAZT1254G
	750	320	1	NSYPLAT1273G	NSYPLAZT1273G
		420	1	NSYPLAT1274G	NSYPLAZT1274G
		620*	1	NSYPLAT1276G	NSYPLAZT1276G
	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G
		420	2	NSYPLAT12104G	NSYPLAZT12104G
	1250	320	2	NSYPLAT12123G	NSYPLAZT12123G
		420	2	NSYPLAT12124G	NSYPLAZT12124G
		620*	2	NSYPLAT12126G	NSYPLAZT12126G
1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
		420	1	NSYPLAT1554G	NSYPLAZT1554G
	750	320	1	NSYPLAT1573G	NSYPLAZT1573G
		420	1	NSYPLAT1574G	NSYPLAZT1574G
		620*	1	NSYPLAT1576G	NSYPLAZT1576G
	1000	320	2	NSYPLAT15103G	NSYPLAZT15103G
		420	2	NSYPLAT15104G	NSYPLAZT15104G
	1250	320	2	NSYPLAT15123G	NSYPLAZT15123G
		420	2	NSYPLAT15124G	NSYPLAZT15124G
		620*	2	NSYPLAT15126G	NSYPLAZT15126G
2000*	750	420	2**	NSYPLAT2074G	NSYPLAZT2074G

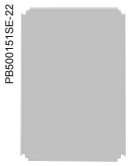
** Dimensions available after second half of 2016.*
*** Two doors in vertical.*

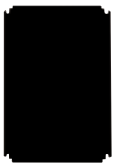
Selection guide
Polyester floor-standing enclosures

Mounting accessories


PB500072-16


PB500102-21


PB500151SE-22


PB500103-15


PB502917-22



Dimensions (mm)			Metallic mounting plates		Insulating mounting plates		Modular distribution chassis		Internal door
Height	Width	N° of doors	Plain	Telequick	Polyester	Bakelite			
			Page 196		Page 196		Page 198		Page 194
500	500	1	NSYPMM55	NSYPMR55	NSYPMA55	NSYPMB55	-	-	NSYPAPLA55G
	750	1	NSYPMM75	NSYPMR57	NSYPMA75	NSYPMB75	-	-	NSYPAPLA57G
	1000	2	NSYPMM510	2 x NSYPMR55	NSYPMA510	NSYPMB510	-	-	2 x NSYPAPLA55G
	1250	2	NSYPMM55 + NSYPMM75	NSYPMR55 + NSYPMR57	NSYPMA55 + NSYPMA75	NSYPMB55 + NSYPMB75	-	-	NSYPAPLA55G + NSYPAPLA57G
750	500	1	NSYPMM75	NSYPMR75	NSYPMA75	NSYPMB75	NSYDLP76G	NSYDLP57G	NSYPAPLA75G
	750	1	NSYPMM77	NSYPMR77	NSYPMA77	NSYPMB77	NSYDLP132G	NSYDLP99G	NSYPAPLA77G
	1000	2	NSYPMM710	2 x NSYPMR75	NSYPMA710	NSYPMB710	2 x NSYDLP76G	2 x NSYDLP57G	2 x NSYPAPLA75G
	1250	2	NSYPMM712	NSYPMR75 + NSYPMR77	NSYPMA712	NSYPMB712	NSYDLP76G + NSYDLP132G	NSYDLP57G + NSYDLP99G	NSYPAPLA75G + NSYPAPLA77G
1000	500	1	NSYPMM105	NSYPMR105	NSYPMA105	NSYPMB105	NSYDLP114G	NSYDLP95G	NSYPAPLA105G
	750	1	NSYPMM107	NSYPMR107	NSYPMA107	NSYPMB107	NSYDLP198G	NSYDLP165G	NSYPAPLA107G
	1000	2	NSYPMM1010	2 x NSYPMR105	NSYPMA1010	NSYPMB1010	2 x NSYDLP114G	2 x NSYDLP95G	2 x NSYPAPLA105G
	1250	2	NSYPMM1012	NSYPMR105 + NSYPMR107	NSYPMA1012	NSYPMB1012	NSYDLP114G + NSYDLP198G	NSYDLP95G + NSYDLP165G	NSYPAPLA105G + NSYPAPLA107G
1250	500	1	NSYPMM125	NSYPMR125	NSYPMA125	NSYPMB125	NSYDLP133G	NSYDLP114PG	NSYPAPLA125G
	750	1	NSYPMM127	NSYPMR127	NSYPMA127	NSYPMB127	NSYDLP231G	NSYDLP198PG	NSYPAPLA127G
	1000	2	NSYPMM1210	2 x NSYPMR125	NSYPMA1210	NSYPMB1210	2 x NSYDLP133G	2 x NSYDLP114PG	2 x NSYPAPLA125G
	1250	2	NSYPMM1212	NSYPMR125 + NSYPMR127	NSYPMA1212	NSYPMB1212	NSYDLP133G + NSYDLP231G	NSYDLP114PG + NSYDLP198PG	NSYPAPLA125G + NSYPAPLA127G
1500	500	1	NSYPMM155	NSYPMR155	-	NSYPMB155	NSYDLP171G	NSYDLP152G	NSYPAPLA155G
	750	1	NSYPMM157	NSYPMR157	-	NSYPMB157	NSYDLP297G	NSYDLP264G	NSYPAPLA157G
	1000	2	NSYPMM1510	2 x NSYPMR155	-	NSYPMB1510	2 x NSYDLP171G	2 x NSYDLP152G	2 x NSYPAPLA155G
	1250	2	NSYPMM1512	NSYPMR155 + NSYPMR157	-	NSYPMB1512	NSYDLP171G + NSYDLP297G	NSYDLP152G + NSYDLP264G	NSYPAPLA155G + NSYPAPLA157G
2000	750	2	NSYPMM207	2 x NSYPMR107	2 x NSYPMA107	2 x NSYPMB107	-	-	-

Step slides

PB500176-20



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Uprights and mounting rails

PB500177-40



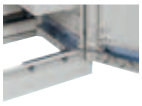
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Door retainer

PB502913-18



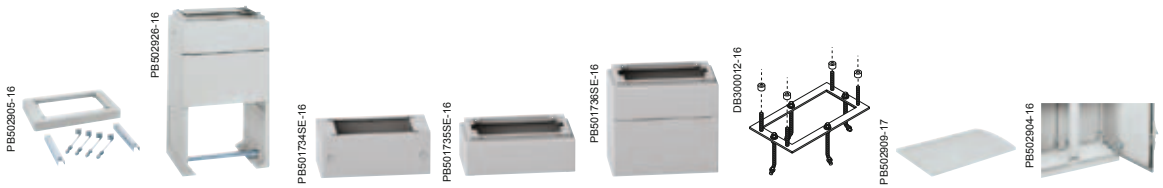
PB502927-18



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Selection guide
Polyester floor-standing enclosures

Composition accessories



Dimensions (mm)		N plinth	H plinth	ZA plinth	ZZ plinth		Floor-fixing frame	Canopy	Cable-entry plate
Width	Depth	Height 60 mm	Height 900 mm	Height 200 mm	Height 200 mm	Height 500 mm			
		Page 191	Page 193	Page 190	Page 192		Page 193	Page 189	Page 189
500	320	NSYZNPLA53G	NSYZHPLA53G	NSYZA253G	NSYZZ253G	NSYZZ553G	NSYMFPLAZ53	NSYTJPLA53G	NSYECPLAZ53G
	420	NSYZNPLA54G	NSYZHPLA54G	NSYZA254G	NSYZZ254G	NSYZZ554G	NSYMFPLAZ54	NSYTJPLA54G	NSYECPLAZ54G
750	320	NSYZNPLA73G	NSYZHPLA73G	NSYZA273G	NSYZZ273G	NSYZZ573G	NSYMFPLAZ73	NSYTJPLA73G	NSYECPLAZ73G
	420	NSYZNPLA74G	NSYZHPLA74G	NSYZA274G	NSYZZ274G	NSYZZ574G	NSYMFPLAZ74	NSYTJPLA74G	NSYECPLAZ74G
	620	-	-	NSYZA276G	NSYZZ276G	-	NSYMFPLAZ76	NSYTJPLA76G	NSYECPLAZ76G
1000	320	NSYZNPLA103G	NSYZHPLA103G	NSYZA2103G	NSYZZ2103G	NSYZZ5103G	NSYMFPLAZ103	NSYTJPLA103G	NSYECPLAZ103G
	420	NSYZNPLA104G	NSYZHPLA104G	NSYZA2104G	NSYZZ2104G	NSYZZ5104G	NSYMFPLAZ104	NSYTJPLA104G	NSYECPLAZ104G
1250	320	NSYZNPLA123G	NSYZHPLA123G	NSYZA2123G	NSYZZ2123G	NSYZZ5123G	NSYMFPLAZ123	NSYTJPLA123G	NSYECPLAZ123G
	420	NSYZNPLA124G	NSYZHPLA124G	NSYZA2124G	NSYZZ2124G	NSYZZ5124G	NSYMFPLAZ124	NSYTJPLA124G	NSYECPLAZ124G
	620	-	-	NSYZA2126G	NSYZZ2126G	-	NSYMFPLAZ126	NSYTJPLA126G	NSYECPLAZ126G

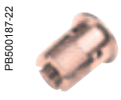
VDI accessories



Dimensions (mm)		19" fixed chassis		19" swing chassis	
Height	Width	References	Number of U	References	Number of U
		Page 203		Page 203	
500	750	NSYBRF8PLAG	8	NSYBRP7PLAG	7
750	750	NSYBRF12PLAG + NSYSPLA75	12	NSYBRP11PLAG + NSYSPLA75	11
1000	750	NSYBRF17PLAG + NSYSPLA100	17	NSYBRP16PLAG + NSYSPLA100	16
1250	750	NSYBRF21PLAG + NSYSPLA125	21	NSYBRP20PLAG + NSYSPLA125	20
1500	750	NSYBRF26PLAG + NSYSPLA150	26	NSYBRP25PLAG + NSYSPLA150	25
2000	750	NSYBRF35PLAG	35	2 x NSYBRP16PLAG + 2 x NSYSPLA100	2 x 16

Door switch


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Insert


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Document pocket


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VDI accessories and fixings

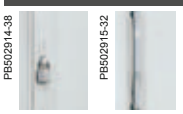

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Coupling Kit


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Anti-graffiti paint


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Handles and inserts


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Wall-fixing lug


Page 189

Steel
industrial boxes

Steel industrial boxes
Contents



Spacial SDB **34**
Metallic junction boxes and small metallic enclosures

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New **36**

Spacial SBM
Steel industrial boxes

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Technical characteristics 38
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Specific accessories overview 40
Common accessories overview 41
Mounting accessories 42
Fixing accessories 44

Metallic junction boxes
Characteristics

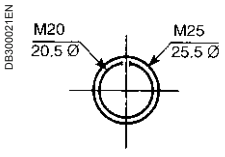




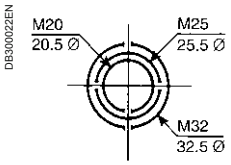
Characteristics	Metallic junction boxes
	■ PVC sealing gasket on sizes up to 20/15 and a rubber gasket for > 25/20. ■ Back ready for threaded drill holes for fixing equipment. From size 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate. ■ The SDB series consists of 4 basic models: □ without knock-outs: with high cover, **NSYDA●●●** □ with knock-outs: **NSYDA●●●M** with high cover. □ without knock-outs: with low cover, **NSYDB●●●** □ with knock-outs: **NSYDB●●●M** with low cover.
Material	Sheet steel
Finish	Protected inside and outside with textured epoxy-polyester paint
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK07
Installation	Indoor installation: direct wall-mounting by means of drill holes fitted with plastic plugs to ensure sealing Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure

Dimensions

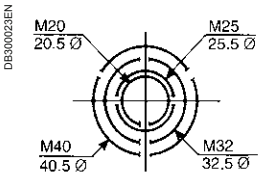
Models	External dimensions (mm)			Models without knock-outs	Models with knock-outs, no. of drill holes, knock-outs and group			Dimensions (mm)			Weight (kg)
	Height (A)	Width (B)	Depth (C)	References	References	Height (A)	Width (B)	D	E	F	
Low cover	85	85	49	**NSYDBN88**	**NSYDB88M**	1 n° 1	1 n° 1	58	58	-	0.18
	105	105	49	**NSYDBN1010**	**NSYDB1010M**	2 n° 1	1 n° 1	76	76	-	0.25
	155	105	61	**NSYDBN1510**	**NSYDB1510M**	3 n° 1	1 n° 1	124	74	56	0.38
	206	156	83	**NSYDBN2015**	**NSYDB2015M**	3 n° 3	2 n° 3	172	122	78	1
	256	206	93	**NSYDBN2520**	**NSYDB2520M**	3 n° 4	2 n° 4	220	170	88	1.5
	307	257	116	**NSYDBN3025**	**NSYDB3025M**	2 n° 3, 2 n° 4	3 n° 4	268	218	110	3.3
	357	307	136	**NSYDBN3530**	**NSYDB3530M**	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	4.8
High cover	155	105	88	**NSYDAN1510**	**NSYDA1510M**	3 n° 2	1 n° 2	124	74	83	0.45
	206	156	122	**NSYDAN2015**	**NSYDA2015M**	3 n° 3	2 n° 3	172	122	121	1.2
	256	206	140	**NSYDAN2520**	**NSYDA2520M**	3 n° 4	2 n° 4	220	170	131	1.9



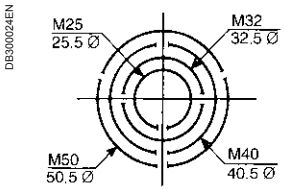
Group n° 1



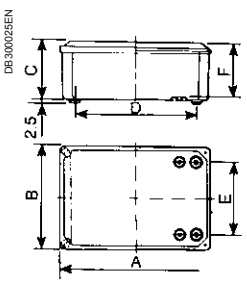
Group n° 2



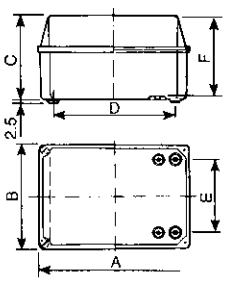
Group n° 3



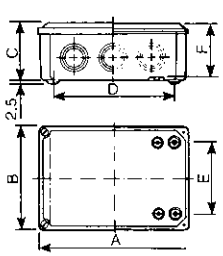
Group n° 4



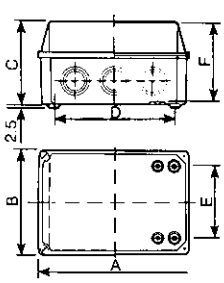
NSYDBN



NSYDAN



NSYDB●●●M



NSYDA●●●M

Small metallic enclosures
Characteristics

PB500236-35



PB500238-32

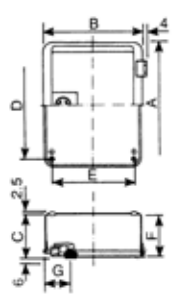


Small metallic enclosures	
■ Enclosures fitted with sealing gasket and M4 threaded holes fitted with removable plugs for fixing the mounting plate and/or equipment in general. ■ Lock with double-bar insert operated with key (standard supply). Fixing this key to the insert will convert it into a handle lock. See other lock possibilities in the insert table. ■ The Spacial SDB series with hinges consists of 2 models: □ low cover. **NSYDAN●●●D**	□ high cover. **NSYSDBN●●●D**
Sheet steel	
Protected inside and outside with textured epoxy-polyester paint	
RAL 7035 grey	
IP55 according to IEC 60529	
-	

Dimensions

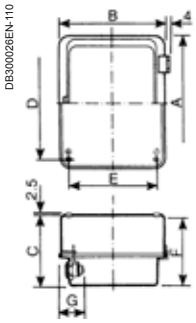
Models	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Weight (kg)
	Height (A)	Width (B)	Depth (C)	References	D	E	F	G	
Low cover	206	156	83	**NSYDBN2015D**	172	122	78	55	1
	256	206	93	**NSYDBN2520D**	220	170	88	55	1.5
	307	257	116	**NSYDBN3025D**	268	218	110	55	3.3
	357	307	136	**NSYDBN3530D**	318	268	130	55	4.8
High cover	206	156	122	**NSYDAN2015D**	172	122	121	45	1.2
	256	206	140	**NSYDAN2520D**	220	170	131	45	1.9
	307	257	174	**NSYDAN3025D**	268	218	168	45	4
	357	307	210	**NSYDAN3530D**	318	268	204	45	5.8

DB300026EN-110



NSYDBN...D

DB300026EN-110



NSYDAN...D

Conversions of standard lock into normalised solutions

Type and size		Operated with a key		References
Square insert	□ 6 mm	LC-7	DB300027-9	**NSYTC6CRN**
	□ 7 mm	LC-7		**NSYTC7CRN**
	□ 8 mm	LC-8		**NSYTC8CRN**
Triangular insert	▲ 6 mm	LT-8	DB300028-10	**NSYTT6CRN**
	▲ 7 mm	LT-8		**NSYTT7CRN**
	▲ 8 mm	LT-8		**NSYTT8CRN**
405 key-type lock			DB300029-6	**NSYCL405CRN**

Plain mounting plate

Boxes and small enclosures SDB		Plain mounting plate		
Dimensions (mm)		References	Dimensions (mm)	
H	W		H	W
155	105	**NSYPMD1510**	136	88
206	156	**NSYPMD2015**	184	136
256	206	**NSYPMD2520**	234	184
307	257	**NSYPMD3025**	232	282
357	307	**NSYPMD3530**	282	332

Steel industrial boxes
Introduction

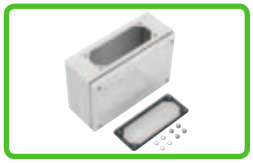
New

> Simplicity, ergonomics and versatility, it's all in the box.

PB503355-60

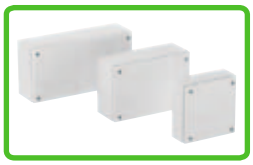


PB503349-17



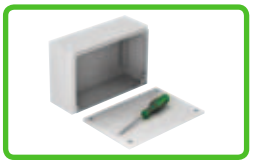
Selection
- 3 versions: flat box (SBM), FL21 entry box (SBMC) and bus box (SBMB).
- 80 mm and 120 mm depth.
- FL21 cable entries available according to the version.

PB503350-30



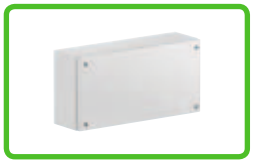
Modularity
- 28 sizes available.
- Up to 42 sizes possible thanks to the optional Extension box accessory.

PB503363-21



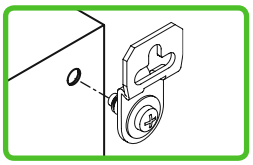
Ergonomics
- Cover opening and accessory mounting with **just a screwdriver**.
- Better accessibility thanks to the Extension box accessory.

PB503351-20



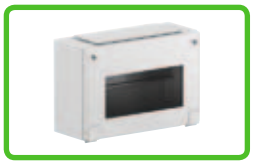
Sturdy and good ingress protection
- Mechanical protection rating up to IK10.
- Ingress protection rating up to IP66.

DB300080



Easy installation
- Direct mounting though the rear.
- Mounting with versatile external lugs.

PB503354-20



Added value to your work
- Quality and aesthetics.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

Steel industrial boxes
Characteristics

New


PB503351-40


PB503353-34


PB503354-34

	Spacial SBM Flat box	Spacial SBMC FL21 Entry box	Spacial SBMB Bus box
	Box with plain faces.	Equipped with two or more FL21 cable gland plates.	Equipped with FL 21 cable gland plates, hinged cover with Securit® glass window and a DIN rail.
	Box body Single-piece body (rectangular structure). Front design incorporating folded gutters. Flat rear. 2 (or 3*) drilled profiles for installing mounting plates and DIN rails, with mounting centres of 12.5 mm. 2 or more FL21 cable gland plates (1) for easy drilling and to maximum access area, delivered with the enclosure. **Box cover** Equipped with 2, 3, 4 or 6 half-turn thread screws, according to the version (2) to ensure maximum watertightness. Bus boxes equipped with cover hinges for a comfortable 180° door opening. Polyurethane sealing gasket. **Protection of personnel** Ground connection mandatory for all boxes: Spacial SBM steel boxes are equipped with a M6 x 16 ground stud welded in the cover, to be linked with the body for equipotential connection. Grounding strap to be ordered separately (Ø 6.4 mm terminal).		
Material	Sheet steel		
Finish	Structured		
Colour	RAL 7035 grey		
Ingress protection rating	■ IEC 60529: IP66 ■ UL 50, 50E: type 4, 4X	■ IEC 60529: IP55 ■ UL 50, 50E: type 12, 12X	
Mechanical protection rating	IK10		IK08
Standard	Compliance with enclosure standard IEC 62208 and the RoHS directive		
Certifications	■ UL, BV, DNV, LR, GL ■ Fire class: M0	■ UL, BV, DNV, LR, GL ■ Fire class: M0	
Installation	**Indoor installation** Direct wall-mounting (4 x Ø 10 mm holes with sealing plugs to maintain the UL and IP rating) or with the help of mounting lugs installed from the outside (to be ordered separately, see the specific accessory pages). Distance between mounting holes enables the installation of the box in the same locations as many existing enclosures. Marks on the rear of the box locate the mounting points of obsolete Schneider Electric models. Marks on the sides help with drilling the body to install hinges **Outdoor installation** Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to place the box under shelter to avoid water accumulation on the upper part of the enclosure		
Maximum load	Loading capacity on the body: 50 kg/m²		
Other characteristics	**Vibration constraints** Specific construction of the Spacial SBM - Single-piece body (rectangular structure). The rear is flat without added parts - this ensures compliance with certain vibration constraints. The tests were conducted according to the marine application by "Det Norske Veritas". Boxes labelled "DNV" have undergone these tests and obtained classification "A"		

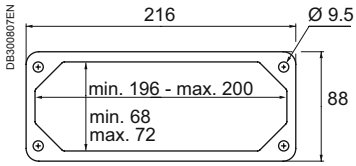
** 3 profiles for width 800 mm.*
(1) Only on Entry boxes and Bus boxes.
(2) 2 for Bus box (3 screws for width greater than 400 mm), 4 for Flat and Entry boxes (6 screws for width greater than 400 mm).

Steel industrial boxes
Technical characteristics

New

Box			Extension box	FL21 cable gland*		Power dissipation**	Sheet thickness
Height (mm)	Width (mm)	Depth (mm)	Total depth (mm)	Along Height (mm)	Width (mm)	(W)	(mm)
150	150	80				13.5	10/10e
		120				17.2	10/10e
	200	80				16.6	10/10e
		120				20.8	10/10e
	300	80				22.8	10/10e
		120			1+1	28.1	10/10e
	400	80				29.0	10/10e
		120			1+1	35.3	10/10e
200	200	80	160			20.6	10/10e
		120	200			25.6	10/10e
	300	80	160			28.2	10/10e
		120	200		1+1	34.2	10/10e
	400	80	160			35.7	10/10e
		120	200		1+1	42.8	10/10e
	500	80	160			43.3	12/10e
		120	200			51.4	12/10e
	600	80	160			50.8	12/10e
		120	200		2+2	60.1	12/10e
	800	120			2+2	77.3	12/10e
300	300	120	200	1+1	1+1	46.4	10/10e
	400	120	200	1+1	1+1	57.8	10/10e
	500	120	200			69.1	12/10e
	600	120	200	1+1	2+2	80.4	12/10e
	800	120		1+1	2+2	103.0	12/10e
400	400	120		1+1	1+1	72.7	10/10e
	500	120				86.7	12/10e
	600	120		1+1	2+2	100.7	12/10e
	800	120		1+1	2+2	128.7	12/10e

** Only on SBMB and SBMC boxes.*
*** Power dissipation calculated for a box mounted on a wall, at external temperature 25°C and maximum internal temperature 55°C.*



Steel industrial boxes
Dimensions

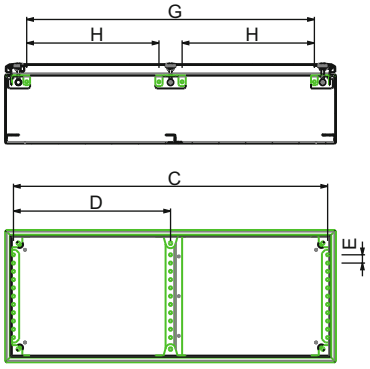
New

External mounting of the box and mounting accessories

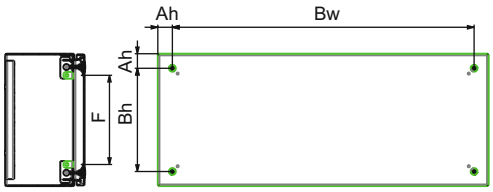
Box		Mounting								
Height (mm)	Width (mm)	Ah (mm)	Bh (mm)	Bw (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
150	150	20.5	109	109	125	-	12.5	85	85	-
	200	20.5	109	159	175	-	12.5	85	135	-
	300	20.5	109	259	275	-	12.5	85	235	-
	400	20.5	109	359	375	-	12.5	85	335	-
200	200	20.5	159	159	175	-	12.5	135	135	-
	300	20.5	159	259	275	-	12.5	135	235	-
	400	20.5	159	359	375	-	12.5	135	335	-
	500	20.5	159	459	475	-	12.5	135	435	200
	600	20.5	159	559	575	-	12.5	135	535	250
	800	20.5	159	759	775	387.5	12.5	135	735	350
300	300	20.5	259	259	275	-	12.5	235	235	-
	400	20.5	259	359	375	-	12.5	235	335	-
	500	20.5	259	459	475	-	12.5	235	435	200
	600	20.5	259	559	575	-	12.5	235	535	250
	800	20.5	259	759	775	387.5	12.5	235	735	350
400	400	20.5	359	359	375	-	12.5	335	335	-
	500	20.5	359	459	475	-	12.5	335	435	200
	600	20.5	359	559	575	-	12.5	335	535	250
	800	20.5	359	759	775	387.5	12.5	335	735	350

DB300809EN

Section A-A



Section B-B

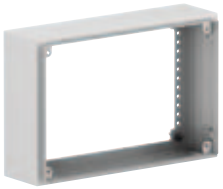


Steel industrial boxes
Specific accessories overview

Mounting accessories

Extension box

PB502111-29



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Mounting plate

PB502100-29



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DIN rail

PB502101-29



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Post mounting

PB502099-20



Page 43

Coupling kit

PB502097-29



Page 43

Mounting accessories

Mounting lugs

PB502098-10



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Self-tapping screws

PB502104-8



Page 45

Hinges

PB502102-17



Page 45

Double-bar shaped head screw

PB502105-10



Page 45

Triangle shaped head screw

PB502106-7



Page 45

Sealing kit

PB502103-18



Page 45

Steel industrial boxes
Common accessories overview

Cable management

Cable entries



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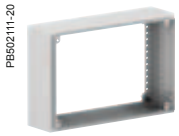
Steel industrial boxes
Mounting accessories

New









Characteristics				Flat box	FL21 entry box	Bus box	Extension box (2)
							Extension box that fits onto the corresponding box of the same height and width: ■ improved ergonomics and accessibility inside the box, ■ increases the interior depth of the box (+80 mm).
Material							Sheet steel
Colour							RAL 7035
Ingress protection rating							IP66 (1 extension)
Installation							Two ground straps must be used with the extension box
Maximum load							30 kg/m² on the extension box
Supply				1 unit	1 unit	1 unit	1 unit
Dimensions (mm)			**Cover screws (1)**	**References**			
Height	**Width**	**Depth**	**Qty**	**SBM**	**SBMC**	**SBMB**	
150	150	80	4	**NSYSBM15158**	-	-	-
		120	4	**NSYSBM151512**	-	-	-
	200	80	4	**NSYSBM15208**	-	-	-
		120	4	**NSYSBM152012**	-	-	-
	300	80	4	**NSYSBM15308**	-	-	-
		120	4	**NSYSBM153012**	**NSYSBMC153012**	-	-
	400	80	4	**NSYSBM15408**	-	-	-
		120	4	**NSYSBM154012**	**NSYSBMC154012**	-	-
200	200	80	4	**NSYSBM20208**	-	-	**NSYAES228SB**
		120	4	**NSYSBM202012**	-	-	**NSYAES228SB**
	300	80	4	**NSYSBM20308**	-	-	**NSYAES238SB**
		120	4	**NSYSBM203012**	**NSYSBMC203012**	**NSYSBMB203012**	**NSYAES238SB**
	400	80	4	**NSYSBM20408**	-	-	**NSYAES248SB**
		120	4	**NSYSBM204012**	**NSYSBMC204012**	**NSYSBMB204012**	**NSYAES248SB**
	500	80	6	**NSYSBM20508**	-	-	**NSYAES258SB**
		120	6	**NSYSBM205012**	-	-	**NSYAES258SB**
	600	80	6	**NSYSBM20608**	-	-	**NSYAES268SB**
		120	6	**NSYSBM206012**	**NSYSBMC206012**	**NSYSBMB206012**	**NSYAES268SB**
	800	120	6	**NSYSBM208012**	**NSYSBMC208012**	**NSYSBMB208012**	-
300	300	120	4	**NSYSBM303012**	**NSYSBMC303012**	-	**NSYAES338SB**
	400	120	4	**NSYSBM304012**	**NSYSBMC304012**	-	**NSYAES348SB**
	500	120	6	**NSYSBM305012**	-	-	**NSYAES358SB**
	600	120	6	**NSYSBM306012**	**NSYSBMC306012**	-	**NSYAES368SB**
	800	120	6	**NSYSBM308012**	**NSYSBMC308012**	-	-
400	400	120	4	**NSYSBM404012**	**NSYSBMC404012**	-	-
	500	120	6	**NSYSBM405012**	-	-	-
	600	120	6	**NSYSBM406012**	**NSYSBMC406012**	-	-
	800	120	6	**NSYSBM408012**	**NSYSBMC408012**	-	-

(1) For Bus box, divide by 2.
(2) Not compatible with Bus box.

Steel industrial boxes
Mounting accessories

PB502100-20



PB502101-20



PB502099-16



PB502097-20



	Mounting plate		DIN rail (3)	Post mounting	Coupling kit
	-		Symmetrical DIN rails 35 x 7.5 mm.	Rail mounted externally to the rear of the box with 8 mm screws for installation on posts with diameters between 150 mm and 215 mm. For steel boxes with widths of 150, 200, 300, 400, 500, 600 and 800 mm.	Entry boxes or Bus boxes can be coupled with each other through their FL21 cable entry openings. They can be coupled together in any combination.
	Galvanised steel		Galvanised steel	Galvanised steel	-
	-		-	-	-
	-		-	-	IP55
	Mounting by means of 2* or 4 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB** (4). Mounting plate attachment points compatible with many other brands of accessories		Mounting by means of 2 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB** (4)	-	For boxes bigger than 500 mm, order the same amount of units as the cable gland plate openings on the face of the box to be coupled, see table on page 38
	-		-	100 kg	-
	1 unit, supplied without screws		10 rails, supplied without screws	1 unit	1 gasket and necessary hardware
	Dimensions (mm)	**References**	**References**	**References**	**References**
	H	**W**	**Steel**		
	125	135	**NSYMM11SB**	**NSYAMRD15357SB**	**NSYSFPSC15**	**NSYAEUBU148****
	125	135	**NSYMM11SB**	**NSYAMRD15357SB**	**NSYSFPSC15**	
	125	185	**NSYMM12SB**	**NSYAMRD20357SB**	**NSYSFPSC20**	
	125	185	**NSYMM12SB**	**NSYAMRD20357SB**	**NSYSFPSC20**	
	125	285	**NSYMM13SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	125	285	**NSYMM13SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	125	385	**NSYMM14SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	125	385	**NSYMM14SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	175	185	**NSYMM22SB**	**NSYAMRD20357SB**	**NSYSFPSC20**	
	175	185	**NSYMM22SB**	**NSYAMRD20357SB**	**NSYSFPSC20**	
	175	285	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	175	285	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	175	385	**NSYMM24SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	175	385	**NSYMM24SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	175	485	**NSYMM25SB**	**NSYAMRD50357SB**	**NSYSFPSC50**	
	175	485	**NSYMM25SB**	**NSYAMRD50357SB**	**NSYSFPSC50**	
	175	585	**NSYMM26SB**	**NSYAMRD60357SB**	**NSYSFPSC60**	
	175	585	**NSYMM26SB**	**NSYAMRD60357SB**	**NSYSFPSC60**	
	175	785	**NSYMM28SB**	**NSYAMRD80357SB**	**NSYSFPSC80**	
	275	285	**NSYMM33SB**	**NSYAMRD30357SB**	**NSYSFPSC30**	
	275	385	**NSYMM34SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	275	485	**NSYMM35SB**	**NSYAMRD50357SB**	**NSYSFPSC50**	
	275	585	**NSYMM36SB**	**NSYAMRD60357SB**	**NSYSFPSC60**	
	275	785	**NSYMM38SB**	**NSYAMRD80357SB**	**NSYSFPSC80**	
	375	385	**NSYMM44SB**	**NSYAMRD40357SB**	**NSYSFPSC40**	
	375	485	**NSYMM45SB**	**NSYAMRD50357SB**	**NSYSFPSC50**	
	375	585	**NSYMM46SB**	**NSYAMRD60357SB**	**NSYSFPSC60**	
	375	785	**NSYMM48SB**	**NSYAMRD80357SB**	**NSYSFPSC80**	

(3) Standard equipped in Bus box.
(4) All boxes are delivered with 5 x Ø 5 mm self-tapping screws.
* *Only 2 screws for mounting plates with height 150 mm.*
** *Same reference for all dimensions. Only compatible with FL21 entry box and Bus box.*

Steel industrial boxes
Mounting accessories

New


PB503351-20


PB503353-20


PB503354-20

Characteristics	Flat box	FL21 entry box	Bus box
Colour			
Ingress protection rating			
Installation			
Maximum load			
Supply	1 unit	1 unit	1 unit

Dimensions (mm)			Cover screws (1)	References		
Height	Width	Depth	Qty	SBM	SBMC	SBMB
150	150	80	4	**NSYSBM15158**	-	-
		120	4	**NSYSBM151512**	-	-
	200	80	4	**NSYSBM15208**	-	-
		120	4	**NSYSBM152012**	-	-
	300	80	4	**NSYSBM15308**	-	-
		120	4	**NSYSBM153012**	**NSYSBMC153012**	-
	400	80	4	**NSYSBM15408**	-	-
		120	4	**NSYSBM154012**	**NSYSBMC154012**	-
200	200	80	4	**NSYSBM20208**	-	-
		120	4	**NSYSBM202012**	-	-
	300	80	4	**NSYSBM20308**	-	-
		120	4	**NSYSBM203012**	**NSYSBMC203012**	**NSYSBMB203012**
	400	80	4	**NSYSBM20408**	-	-
		120	4	**NSYSBM204012**	**NSYSBMC204012**	**NSYSBMB204012**
	500	80	6	**NSYSBM20508**	-	-
		120	6	**NSYSBM205012**	-	-
	600	80	6	**NSYSBM20608**	-	-
		120	6	**NSYSBM206012**	**NSYSBMC206012**	**NSYSBMB206012**
	800	120	6	**NSYSBM208012**	**NSYSBMC208012**	**NSYSBMB208012**
300	300	120	4	**NSYSBM303012**	**NSYSBMC303012**	-
	400	120	4	**NSYSBM304012**	**NSYSBMC304012**	-
	500	120	6	**NSYSBM305012**	-	-
	600	120	6	**NSYSBM306012**	**NSYSBMC306012**	-
	800	120	6	**NSYSBM308012**	**NSYSBMC308012**	-
400	400	120	4	**NSYSBM404012**	**NSYSBMC404012**	-
	500	120	6	**NSYSBM405012**	-	-
	600	120	6	**NSYSBM406012**	**NSYSBMC406012**	-
	800	120	6	**NSYSBM408012**	**NSYSBMC408012**	-

(1) For Bus box, divide by 2.

Steel industrial boxes
Mounting accessories


PB502098-7


PB502104-6


PB502102-12


PB502105-7


PB502106-5


PB502103-13

	Mounting lugs	Self-tapping screws	Hinges (3)	Double-bar shaped head screw	Triangle shaped head screw	Sealing kit
	Wall-mounting lugs to be mounted directly on the rear of the box, either in horizontal or vertical position. Their versatile design complies with the mounting dimensions of many other enclosures.	Self-tapping, Pozidriv head, screws, for Ø 5 mm holes.	The hinges allow the cover to open to more than 180°. They can be installed on all covers in the range.	The standard Pozidriv head screws can be replaced with the Double-bar or Triangle shaped head screws, to discourage unauthorised opening of the cover with normal screwdrivers.		The sealing kit helps to set up a lead-sealed wire of cover opening.
	-	-	-	-		Green
	-	-	IP66	IP66		IP66
	Horizontal or vertical position, distance between wall and enclosure: 10 mm, only requires a screw driver	-	■ The box must be drilled before installing the 2 hinges on the body. 3 hinges are required for boxes of width more than 500 mm ■ A specific mark on the body helps to locate where the hole should be drilled	Simply replace the standard screw on the box		Replaces the standard sealing washer on the box
	70 kg	-	30 kg/m² on the hinged cover	-		-
	4 wall-mounting lugs, screws and pre-mounted sealing gaskets	100 units	6 hinges delivered with hardware	1 unit		1 unit
	NSYAEFPFSB*	**NSYAMFSB***	**NSYAEDHSB***	**NSYAEDSBSB***	**NSYAEDSTSB***	**NSYPPSB***

(3) Standard equipped in Bus box.
** Same reference for all dimensions.*

Steel
wall-mounting enclosures

Steel wall-mounting enclosures
Contents


PB500199-22

Spacial S3D **48**
Steel wall-mounting enclosures

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PB500066-54

Associated applicative offers

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S3DB Terminal enclosures 328
S3DBFL Terminal enclosures with FL21 cut-out 328
S3HD Wall-mounting Heavy Duty enclosures 332
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Steel wall-mounting enclosures
Introduction

> The **steel enclosure** with the greatest range of available dimensions on the market!

PB500199-48



PB500310-37



Useful life
Quality of the welding and the coating.

PB500199



Component security
- Water and dust tightness and impact resistance.
- EMC and ATEX offer.

PB500097-13



Increased choice
- Large range of universal dimensions.
- Application offer with special dimensions.

PB500199



Easy maintenance
- Removable hinges.
- 1 lock command from the height of 600 mm.

PB500304-32



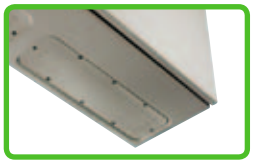
Personnel safety
- Earthing studs welded to the body and door.
- 3-point lock from the height of 600 mm.

PB500309-32



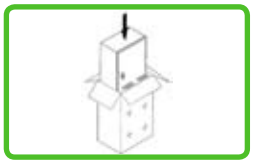
Added value to your work
Quality and aesthetics.

PB500305-29



Easy equipping
- Four 10-mm shouldered welded studs.
- Broad range of mounting plates.
- Broad range of cable-gland plates.
- Wire guides welded to the door from the height of 400 mm.

DB300073-12



Easy handling
- Reusable, eco-friendly packaging.
- No sharp corners.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 480 for details or consult our web site www.schneider-electric.com

Steel wall-mounting enclosures
Characteristics



Characteristics	Spacial S3D
	Three steel enclosure definitions are available: ■ Enclosure with plain door. ■ Enclosure with plain door delivered with a galvanised plain mounting plate, not installed. ■ Enclosure with glazed door, 4-mm-thick Securit® glass. **Personnel protection** ■ Earth connection: Spacial S3D steel enclosures are equipped with M6 x 16 earth studs welded in the body and the door for equipotential connection. Earth braid to be ordered separately (see page 301). ■ Closing the enclosure: the enclosures are equipped from the height of 600 mm with three locking points with linkage, with a single control point, preventing the enclosures from being left ajar. Locks and inserts, page 64.
Material	Steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	■ IP66 for the single-door enclosures and IP55 for the double-door enclosures, according to IEC 60529
Mechanical protection rating	■ IK10 for the plain-door enclosures, according to IEC 62262 ■ IK08 for the glazed-door enclosures
Standards	Compliance with enclosure standards IEC 62208 The Spacial S3D wall-mounting enclosures are compliant with the RoHS directive
Certifications	■ UL, CUL, BV, DNV, GL, ATEX (modified enclosure) ■ NEMA type 4, 4X for the single-door enclosures and NEMA type 12, 12K, 13 for the double-door enclosures according to NEMA 250 standard. Information on NEMA & UL classification on pages 560 and 561 **Nuclear decontamination: RAL 7035 and AFNOR A550 tests available on demand. More information on coating properties on pages 562 and 563**
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion) It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure
Fixing	4 (or 6**) M8 x 25 shouldered backstuds for installing mounting plates and step slides, leaving a space of 10 mm behind them.
Supply	**Body** ■ Single-piece body (cross-shaped structure). Gutter-shaped front profile with double fold. Flat rear ■ M6 x 16 earthing screws for equipotential connection between the door and the body of the enclosure ■ Cable-gland plate with marking for easy drilling and to guarantee the maximum access surface; delivered with the enclosure. This plate is flush with the body of the enclosure (detail and other options on page 68) ■ Direct wall-mounting (4 Ø 10 holes for the sealing plugs guaranteeing the IP) or with the help of fixing lugs installed from the outside (to be ordered separately, see page 58) **Door** ■ Wall-mounting enclosure supplied with 3-mm double-bar lock as standard ■ Polyurethane door gasket ■ M6 x 16 earthing screws for equipotential connection between the door and the body of the enclosure ■ Easily removable and reversible, with 20-mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges* ■ Door opening to 180° with optional hinges (page 66) ■ For heights from 600 mm, three locking points with linkage, with a single control point. Simple reversal of linkage. Maximum load: 50 kg/m² ■ A handle is delivered which provides 2 functions: □ Operating key □ Tool for loosening the stud protection caps. This handle can be solidly attached to the locking system by means of a captive element ■ Perforated rails on the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm: □ 2 vertical rails from the height of 400 mm □ 2 vertical rails and 2 horizontal rails from the width of 800 mm

** From the height of 800 mm.*
*** 6 studs for widths 1000 and 1200 (see pages 73 and 74).*

Steel wall-mounting enclosures
Selection guide


PB500096-13


PB500097-13


PB500072-13


PB500100-13


PB500101-16

Characteristics						Door			Mounting plate		
Dimensions (mm) (1)			No. of doors	IP	Weight (kg) (2)	Plain		Glazed	Plain	Silkscreened (3)	Microperforated
H	W	D				With mounting plate	Without mounting plate	Without mounting plate			
300	200	150	1	66	3.02	NSYS3D3215P	NSYS3D3215	-	NSYMM32	-	NSYMF32
	250	150	1	66	3.48	NSYS3D32515P	NSYS3D32515	NSYS3D32515T	NSYMM3025	-	-
	300	150	1	66	3.90	NSYS3D3315P	NSYS3D3315	NSYS3D3315T	NSYMM33	-	NSYMF33
		200	1	66	4.50	NSYS3D3320P	NSYS3D3320	NSYS3D3320T	NSYMM33	-	NSYMF33
	400	150	1	66	4.82	NSYS3D3415P	NSYS3D3415	NSYS3D3415T	NSYMM43	NSYMS43	NSYMF43
		200	1	66	5.60	NSYS3D3420P	NSYS3D3420	NSYS3D3420T	NSYMM43	NSYMS43	NSYMF43
400	300	150	1	66	4.90	NSYS3D4315P	NSYS3D4315	NSYS3D4315T	NSYMM43	NSYMS43	NSYMF43
		200	1	66	5.00	NSYS3D4320P	NSYS3D4320	NSYS3D4320T	NSYMM43	NSYMS43	NSYMF43
	400	200	1	66	6.50	NSYS3D4420P	NSYS3D4420	NSYS3D4420T	NSYMM44	NSYMS44	NSYMF44
	600	200	1	66	10.50	NSYS3D4620P	NSYS3D4620	NSYS3D4620T	NSYMM64	NSYMS64	NSYMF64
		250	1	66	12.00	NSYS3D4625P	NSYS3D4625	NSYS3D4625T	NSYMM64	NSYMS64	NSYMF64
500	300	200	1	66	7.50	NSYS3D5320P	NSYS3D5320	NSYS3D5320T	NSYMM53	NSYMS53	NSYMF53
	400	200	1	66	9.30	NSYS3D5420P	NSYS3D5420	NSYS3D5420T	NSYMM54	NSYMS54	NSYMF54
		250	1	66	10.20	NSYS3D5425P	NSYS3D5425	NSYS3D5425T	NSYMM54	NSYMS54	NSYMF54
	500	200	1	66	11.18	NSYS3D5520P	NSYS3D5520	NSYS3D5520T	NSYMM55	NSYMS55	NSYMF55
		250	1	66	12.06	NSYS3D5525P	NSYS3D5525	NSYS3D5525T	NSYMM55	NSYMS55	NSYMF55
600	400	200	1	66	11.00	NSYS3D6420P	NSYS3D6420	NSYS3D6420T	NSYMM64	NSYMS64	NSYMF64
		250	1	66	12.00	NSYS3D6425P	NSYS3D6425	NSYS3D6425T	NSYMM64	NSYMS64	NSYMF64
	500	250	1	66	16.20	NSYS3D6525P	NSYS3D6525	NSYS3D6525T	NSYMM65	-	NSYMF65
	600	200	1	66	14.00	NSYS3D6620P	NSYS3D6620	NSYS3D6620T	NSYMM66	NSYMS66	NSYMF66
		250	1	66	15.00	NSYS3D6625P	NSYS3D6625	NSYS3D6625T	NSYMM66	NSYMS66	NSYMF66
		300	1	66	17.00	NSYS3D6630P	NSYS3D6630	NSYS3D6630T	NSYMM66	NSYMS66	NSYMF66
		400	1	66	19.00	NSYS3D6640P	NSYS3D6640	NSYS3D6640T	NSYMM66	NSYMS66	NSYMF66
	800	300	1	66	25.50	NSYS3D6830P	NSYS3D6830	NSYS3D6830T	NSYMM86	NSYMS86	NSYMF86
700	500	250	1	66	15.00	NSYS3D7525P	NSYS3D7525	NSYS3D7525T	NSYMM75	NSYMS75	NSYMF75
800	600	200	1	66	21.00	NSYS3D8620P	NSYS3D8620	NSYS3D8620T	NSYMM86	NSYMS86	NSYMF86
		250	1	66	23.00	NSYS3D8625P	NSYS3D8625	NSYS3D8625T	NSYMM86	NSYMS86	NSYMF86
		300	1	66	25.00	NSYS3D8630P	NSYS3D8630	NSYS3D8630T	NSYMM86	NSYMS86	NSYMF86
		400	1	66	29.00	NSYS3D8640P	NSYS3D8640	NSYS3D8640T	NSYMM86	NSYMS86	NSYMF86
	800	250	1	66	30.00	NSYS3D8825P	NSYS3D8825	NSYS3D8825T	NSYMM88	-	NSYMF88
		300	1	66	32.00	NSYS3D8830P	NSYS3D8830	NSYS3D8830T	NSYMM88	-	NSYMF88
	1000	300	1	66	38.00	NSYS3D81030P	NSYS3D81030	-	NSYMM108	-	NSYMF108
		300	2	55	43.50	NSYS3D81030DP	NSYS3D81030D	-	NSYMM108	-	NSYMF108
	1200	300	2	55	46.00	NSYS3D81230DP	NSYS3D81230D	-	NSYMM128	-	NSYMF128
1000	600	250	1	66	28.00	NSYS3D10625P	NSYS3D10625	NSYS3D10625T	NSYMM106	-	NSYMF106
		300	1	66	30.60	NSYS3D10630P	NSYS3D10630	NSYS3D10630T	NSYMM106	-	NSYMF106
		400	1	66	33.00	NSYS3D10640P	NSYS3D10640	NSYS3D10640T	NSYMM106	-	NSYMF106
	800	250	1	66	35.00	NSYS3D10825P	NSYS3D10825	NSYS3D10825T	NSYMM108	-	NSYMF108
		300	1	66	38.00	NSYS3D10830P	NSYS3D10830	NSYS3D10830T	NSYMM108	-	NSYMF108
		400	1	66	42.00	NSYS3D10840P	NSYS3D10840	NSYS3D10840T	NSYMM108	-	NSYMF108
	1000	300	1	66	46.00	NSYS3D101030P	NSYS3D101030	NSYS3D101030T	NSYMM1010	-	NSYMF1010
		300	2	55	46.00	NSYS3D101030DP	NSYS3D101030D	NSYS3D101030DT	NSYMM1010	-	NSYMF1010
	1200	300	2	55	53.00	NSYS3D101230DP	NSYS3D101230D	-	NSYMM1210	-	NSYMF1210
		400	2	55	60.00	NSYS3D101240DP	NSYS3D101240D	-	NSYMM1210	-	NSYMF1210
1200	600	300	1	66	37.00	NSYS3D12630P	NSYS3D12630	NSYS3D12630T	NSYMM126	-	NSYMF126
		400	1	66	42.00	NSYS3D12640P	NSYS3D12640	NSYS3D12640T	NSYMM126	-	NSYMF126
	800	300	1	66	45.00	NSYS3D12830P	NSYS3D12830	NSYS3D12830T	NSYMM128	-	NSYMF128
		400	1	66	49.00	NSYS3D12840P	NSYS3D12840	NSYS3D12840T	NSYMM128	-	NSYMF128
	1000	300	1	66	53.00	NSYS3D121030P	NSYS3D121030	NSYS3D121030T	NSYMM1210	-	NSYMF1210
		300	2	55	54.00	NSYS3D121030DP	NSYS3D121030D	NSYS3D121030DT	NSYMM1210	-	NSYMF1210
		400	2	55	61.00	NSYS3D121040DP	NSYS3D121040D	-	NSYMM1210	-	NSYMF1210
	1200	300	2	55	64.00	NSYS3D121230DP	NSYS3D121230D	-	NSYMM1212	-	2 x NSYMF126 +
		400	2	55	90.00	NSYS3D121240DP	NSYS3D121240D	-	NSYMM1212	-	2 x NSYMF126 +
1400	1000	300	2	55	80.00	NSYS3D141030DP	NSYS3D141030D	-	NSYMM1410	-	-

(1) For other dimensions, see our application offer.
(2) Enclosure without mounting plate.
(3) In inverted use, the marking is inverted.

Wall-fixing lugs


PB502979-6

Steel: **NSYAEFPFSC**
Stainless steel: **NSYAEFPFXSC**
Page 58

Reinforcement for heavy loads


PB502980-10

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Locking accessories


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Steel wall-mounting enclosures
Selection guide


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Characteristics			Mounting plate					Modular mounting plate			
Dimensions (mm)			Telequick	Bakelite	DIN rail chassis	Type	Aluminium vertical rails (4)	Modular chassis		No. of modules	Door cross-rails
H	W	D						DLA Insulated	DLM Steel		
300	200	150	**NSYMR32**	**NSYMB32**	-	-	**NSYMDVR3**	-	-	-	-
	250	150	**NSYMR3025**	**NSYMB3025**	-	-	**NSYMDVR3**	-	-	-	-
	300	150	**NSYMR33**	**NSYMB33**	**NSYMD33**	B	**NSYMDVR3**	-	-	-	-
		200	**NSYMR33**	**NSYMB33**	**NSYMD33**	B	**NSYMDVR3**	-	-	-	-
	400	150	**NSYMR34**	**NSYMB43**	-	-	**NSYMDVR3**	-	-	-	-
		200	**NSYMR34**	**NSYMB43**	-	-	**NSYMDVR3**	-	-	-	-
400	300	150	**NSYMR43**	**NSYMB43**	**NSYMD43**	B	**NSYMDVR4**	-	**NSYDLM24**	24	-
		200	**NSYMR43**	**NSYMB43**	**NSYMD43**	B	**NSYMDVR4**	**NSYDLA24**	**NSYDLM24**	24	-
	400	200	**NSYMR44**	-	-	-	**NSYMDVR4**	-	-	-	**NSYTFPCRN4**
	600	200	**NSYMR46**	**NSYMB64**	-	-	**NSYMDVR4**	-	-	-	**NSYTFPCRN6**
		250	**NSYMR46**	**NSYMB64**	-	-	**NSYMDVR4**	-	-	-	**NSYTFPCRN6**
500	300	200	**NSYMR53**	-	-	-	**NSYMDVR5**	-	-	-	-
	400	200	**NSYMR54**	**NSYMB54**	**NSYMD54**	B	**NSYMDVR5**	**NSYDLA48**	**NSYDLM48**	48	**NSYTFPCRN4**
		250	**NSYMR54**	**NSYMB54**	**NSYMD54**	B	**NSYMDVR5**	-	**NSYDLM48**	48	**NSYTFPCRN4**
	500	200	**NSYMR55**	-	-	-	**NSYMDVR5**	-	-	-	**NSYTFPCRN5**
		250	**NSYMR55**	-	-	-	**NSYMDVR5**	-	-	-	**NSYTFPCRN5**
600	400	200	**NSYMR64**	**NSYMB64**	**NSYMD64**	B	**NSYMDVR6**	**NSYDLA48P**	**NSYDLM48P**	48	**NSYTFPCRN4**
		250	**NSYMR64**	**NSYMB64**	**NSYMD64**	B	**NSYMDVR6**	**NSYDLA48P**	**NSYDLM48P**	48	**NSYTFPCRN4**
	500	250	**NSYMR65**	**NSYMB65**	-	-	**NSYMDVR6**	-	-	-	-
	600	200	**NSYMR66**	-	**NSYMD66**	A	**NSYMDVR6**	-	**NSYDLM84P**	84	**NSYTFPCRN6**
		250	**NSYMR66**	-	**NSYMD66**	A	**NSYMDVR6**	-	**NSYDLM84P**	84	**NSYTFPCRN6**
		300	**NSYMR66**	-	**NSYMD66**	A	**NSYMDVR6**	-	**NSYDLM84P**	84	**NSYTFPCRN6**
		400	**NSYMR66**	-	**NSYMD66**	A	**NSYMDVR6**	-	**NSYDLM84P**	84	**NSYTFPCRN6**
	800	300	**NSYMR68**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR6**	-	-	-	**NSYTFPCRN8**
700	500	250	**NSYMR75**	**NSYMB75**	**NSYMD75**	B	**NSYMDVR7**	**NSYDLA66**	**NSYDLM66**	66	**NSYTFPCRN5**
800	600	200	**NSYMR86**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR8**	**NSYDLA84/NSYDLA112**	**NSYDLM84**	84*	**NSYTFPCRN6**
		250	**NSYMR86**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR8**	**NSYDLA84/NSYDLA112**	**NSYDLM112**	112*	**NSYTFPCRN6**
		300	**NSYMR86**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR8**	**NSYDLA84/NSYDLA112**	**NSYDLM112**	112*	**NSYTFPCRN6**
		400	**NSYMR86**	**NSYMB86**	**NSYMD86**	A	**NSYMDVR8**	**NSYDLA84/NSYDLA112**	**NSYDLM112**	112*	**NSYTFPCRN6**
	800	250	**NSYMR88**	-	-	-	**NSYMDVR8**	-	-	-	**NSYTFPCRN8**
		300	**NSYMR88**	-	-	-	**NSYMDVR8**	-	-	-	**NSYTFPCRN8**
	1000	300	**NSYMR810**	**NSYMB108**	-	-	**NSYMDVR8**	-	-	-	**NSYTFPCRN10**
		300	**NSYMR810**	**NSYMB108**	-	-	**NSYMDVR8**	-	-	-	-
	1200	300	2 x **NSYMR86** +	2 x **NSYMB86** +	2 x **NSYMD86** +	A	**NSYMDVR8**	-	-	-	-
1000	600	250	**NSYMR106**	**NSYMB106**	-	-	**NSYMDVR10**	-	**NSYDLM168**	168	**NSYTFPCRN6**
		300	**NSYMR106**	**NSYMB106**	-	-	**NSYMDVR10**	-	**NSYDLM168**	168	**NSYTFPCRN6**
		400	**NSYMR106**	**NSYMB106**	-	-	**NSYMDVR10**	-	**NSYDLM168**	168	**NSYTFPCRN6**
	800	250	**NSYMR108**	**NSYMB108**	**NSYMD108**	A	**NSYMDVR10**	**NSYDLA234**	**NSYDLM240**	234	**NSYTFPCRN8**
		300	**NSYMR108**	**NSYMB108**	**NSYMD108**	A	**NSYMDVR10**	**NSYDLA234**	**NSYDLM240**	234	**NSYTFPCRN8**
		400	**NSYMR108**	**NSYMB108**	**NSYMD108**	A	**NSYMDVR10**	**NSYDLA234**	**NSYDLM240**	234	**NSYTFPCRN8**
	1000	300	**NSYMR1010** (5)	-	-	-	**NSYMDVR10**	-	-	-	**NSYTFPCRN10**
		300	**NSYMR1010** (5)	-	-	-	**NSYMDVR10**	-	-	-	-
	1200	300	**NSYMR1012** (5)	**NSYMB1210**	-	-	**NSYMDVR10**	-	-	-	-
		400	**NSYMR1012** (5)	**NSYMB1210**	-	-	**NSYMDVR10**	-	-	-	-
1200	600	300	-	-	-	-	**NSYMDVR12**	-	-	-	-
		400	-	-	-	-	**NSYMDVR12**	-	-	-	-
	800	300	**NSYMR128**	-	**NSYMD128**	A	**NSYMDVR12**	-	-	-	**NSYTFPCRN8**
		400	**NSYMR128**	-	**NSYMD128**	A	**NSYMDVR12**	-	-	-	**NSYTFPCRN8**
	1000	300	**NSYMR1210** (5)	**NSYMB1210**	-	-	**NSYMDVR12**	-	-	-	**NSYTFPCRN10**
		300	**NSYMR1210** (5)	**NSYMB1210**	-	-	**NSYMDVR12**	-	-	-	-
		400	**NSYMR1210** (5)	**NSYMB1210**	-	-	**NSYMDVR12**	-	-	-	-
	1200	300	2 x **NSYMR126** +	-	-	-	**NSYMDVR12**	-	-	-	-
		400	2 x **NSYMR126** +	-	-	-	**NSYMDVR12**	-	-	-	-
1400	1000	300	**NSYMR1410** (5)	-	-	-	-	-	-	-	-

*+ Order **NSYCRNGSDR** for double mounting of the mounting plates.*

*(4) Order nuts ref. **NSYAMCSF**. Steel siderail ref. **NSYMDVR12**.*
*(5) When width ≥ 1000 ref. **NSYEMR** is mandatory (see on page 73).*
** Possible assembling to ref. NSYDLM84 or NSYDLM112.*

Door accessories


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PB500320-19

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Clip-on nuts


PB500107-17

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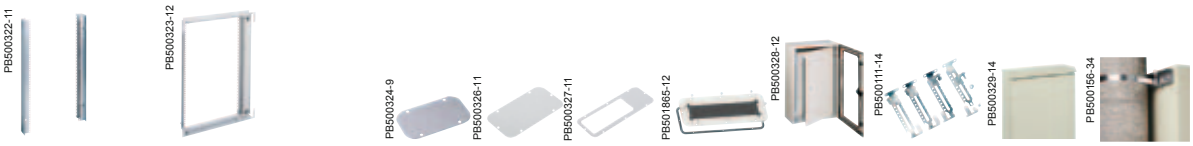
Self-tapping screw


PB500108-16

NSYS13M5HS

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Characteristics			Electronics and networks 19" racks				Cable-entry accessories Cable-gland plates					Composition accessories			
Dimensions (1) (mm)			Fixed	No. of U	Swing	No. of U	Entry type	Standard steel	Aluminium	Steel with cut-out for FL membrane (2)	FlexiCable	Internal door (3)	Step slides	Canopy	Fixing on post
H	W	D													
300	200	150	-	-	-	-	A	NSYTLA	NSYTLAU	-	-	-	-	NSYTJ2015	-
	250	150	-	-	-	-	A	NSYTLA	NSYTLAU	-	-	-	-	NSYTJ2515	-
	300	150	-	-	-	-	B	NSYTLB	NSYTLBU	NSYTLBFL	-	-	-	NSYTJ3015	NSYSFPSC30
		200	-	-	-	-	C	NSYTLC	NSYTLCU	NSYTLCFL	NSYTLCME	-	NSYSDCR200	NSYTJ3020	NSYSFPSC30
	400	150	-	-	-	-	B	NSYTLB	NSYTLBU	NSYTLBFL	-	-	-	NSYTJ4015	NSYSFPSC40
		200	-	-	-	-	D	NSYTLD	NSYTLDU	NSYTLDFL	NSYTLDME	-	NSYSDCR200	NSYTJ4020	NSYSFPSC40
400	300	150	-	-	-	-	B	NSYTLB	NSYTLBU	NSYTLBFL	-	NSYPIN43	-	NSYTJ3015	NSYSFPSC30
		200	-	-	-	-	C	NSYTLC	NSYTLCU	NSYTLCFL	NSYTLCME	NSYPIN43	NSYSDCR200	NSYTJ3020	NSYSFPSC30
	400	200	-	-	-	-	D	NSYTLD	NSYTLDU	NSYTLDFL	NSYTLDME	-	NSYSDCR200	NSYTJ4020	NSYSFPSC40
	600	200	NSYVDM8UF	8	NSYVDM7UP	7	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	-	NSYSDCR200	NSYTJ6020	NSYSFPSC60
		250	NSYVDM8UF	8	NSYVDM7UP	7	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	-	NSYSDCR250	NSYTJ6025	NSYSFPSC60
500	300	200	-	-	-	-	C	NSYTLC	NSYTLCU	NSYTLCFL	NSYTLCME	-	NSYSDCR200	NSYTJ3020	NSYSFPSC30
	400	200	-	-	-	-	D	NSYTLD	NSYTLDU	NSYTLDFL	NSYTLDME	NSYPIN54	NSYSDCR200	NSYTJ4020	NSYSFPSC40
		250	-	-	-	-	D	NSYTLD	NSYTLDU	NSYTLDFL	NSYTLDME	NSYPIN54	NSYSDCR250	NSYTJ4025	NSYSFPSC40
	500	200	-	-	-	-	E	NSYTLE	NSYTLEU	NSYTLEFL	NSYTLEME	-	NSYSDCR200	NSYTJ5020	NSYSFPSC50
		250	-	-	-	-	E	NSYTLE	NSYTLEU	NSYTLEFL	NSYTLEME	-	NSYSDCR250	NSYTJ5025	NSYSFPSC50
600	400	200	-	-	-	-	D	NSYTLD	NSYTLDU	NSYTLDFL	NSYTLDME	NSYPIN64	NSYSDCR200	NSYTJ4020	NSYSFPSC40
		250	-	-	-	-	D	NSYTLD	NSYTLDU	NSYTLDFL	NSYTLDME	NSYPIN64	NSYSDCR250	NSYTJ4025	NSYSFPSC40
	500	250	-	-	-	-	E	NSYTLE	NSYTLEU	NSYTLEFL	NSYTLEME	-	NSYSDCR250	NSYTJ5025	NSYSFPSC50
	600	200	NSYVDM12UF	12	NSYVDM11UP	11	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	-	NSYSDCR200	NSYTJ6020	NSYSFPSC60
		250	NSYVDM12UF	12	NSYVDM11UP	11	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	-	NSYSDCR250	NSYTJ6025	NSYSFPSC60
		300	NSYVDM12UF	12	NSYVDM11UP	11	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	-	NSYSDCR300	NSYTJ6030	NSYSFPSC60
		400	NSYVDM12UF	12	NSYVDM11UP	11	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	-	NSYSDCR400	NSYTJ6040	NSYSFPSC60
	800	300	-	-	-	-	D*	NSYTLD	NSYTLDU	NSYTLDFL	2 x NSYTLDME	-	NSYSDCR300	NSYTJ8030	NSYSFPSC80
700	500	250	-	-	-	-	E	NSYTLE	NSYTLEU	NSYTLEFL	NSYTLEME	NSYPIN75	NSYSDCR250	NSYTJ5025	NSYSFPSC50
800	600	200	NSYVDM17UF	17	NSYVDM16UP	16	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	NSYPIN86	NSYSDCR200	NSYTJ6020	NSYSFPSC60
		250	NSYVDM17UF	17	NSYVDM16UP	16	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	NSYPIN86	NSYSDCR250	NSYTJ6025	NSYSFPSC60
		300	NSYVDM17UF	17	NSYVDM16UP	16	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN86	NSYSDCR300	NSYTJ6030	NSYSFPSC60
		400	NSYVDM17UF	17	NSYVDM16UP	16	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN86	NSYSDCR400	NSYTJ6040	NSYSFPSC60
	800	250	-	-	-	-	D*	NSYTLD	NSYTLDU	NSYTLDFL	2 x NSYTLDME	-	NSYSDCR250	NSYTJ8025	NSYSFPSC80
		300	-	-	-	-	D*	NSYTLD	NSYTLDU	NSYTLDFL	2 x NSYTLDME	-	NSYSDCR300	NSYTJ8030	NSYSFPSC80
	1000	300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300	NSYTJ10030	-
		300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300	NSYTJ10030	-
	1200	300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300***	NSYTJ12030	-
1000	600	250	NSYVDM21UF	21	NSYVDM20UP	20	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	NSYPIN106	NSYSDCR250	NSYTJ6025	-
		300	NSYVDM21UF	21	NSYVDM20UP	20	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN106	NSYSDCR300	NSYTJ6030	-
		400	NSYVDM21UF	21	NSYVDM20UP	20	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN106	NSYSDCR400	NSYTJ6040	-
	800	250	-	-	NSYVDM20U8P	20	D*	NSYTLD	NSYTLDU	NSYTLDFL	2 x NSYTLDME	NSYPIN108	NSYSDCR250	NSYTJ8025	-
		300	-	-	NSYVDM20U8P	20	D*	NSYTLD	NSYTLDU	NSYTLDFL	2 x NSYTLDME	NSYPIN108	NSYSDCR300	NSYTJ8030	-
		400	-	-	NSYVDM20U8P	20	D*	NSYTLD	NSYTLDU	NSYTLDFL	2 x NSYTLDME	NSYPIN108	NSYSDCR400	NSYTJ8040	-
	1000	300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300	NSYTJ10030	-
		300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300	NSYTJ10030	-
	1200	300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300***	NSYTJ12030	-
		400	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR400***	NSYTJ12040	-
1200	600	300	-	-	-	-	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN126	NSYSDCR300	NSYTJ6030	-
		400	-	-	-	-	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN126	NSYSDCR400	NSYTJ6040	-
	800	300	-	-	NSYVDM25U8P	25	D*	NSYTLD	NSYTLDU	NSYTLDFL	2 x NSYTLDME	NSYPIN128	NSYSDCR300	NSYTJ8030	-
		400	-	-	NSYVDM25U8P	25	D*	NSYTLD	NSYTLDU	NSYTLDFL	2 x NSYTLDME	NSYPIN128	NSYSDCR400	NSYTJ8040	-
	1000	300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300	NSYTJ10030	-
		300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300	NSYTJ10030	-
		400	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR400	NSYTJ10040	-
	1200	300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300***	NSYTJ12030	-
		400	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR400***	NSYTJ12040	-
1400	1000	300	-	-	-	-	E*	NSYTLE	NSYTLEU	NSYTLEFL	2 x NSYTLEME	-	NSYSDCR300	NSYTJ10030	-

(1) For other dimensions, see our application offer, page 16.
(2) FL13 for entry type A and B FL21 for all other entries.
(3) To adjust the depth of the internal door, please order the step slides.

** 2 plates.*
*** Exists with 1 cut-out **NSYTLGFL**.*

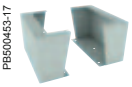
Steel wall-mounting enclosures
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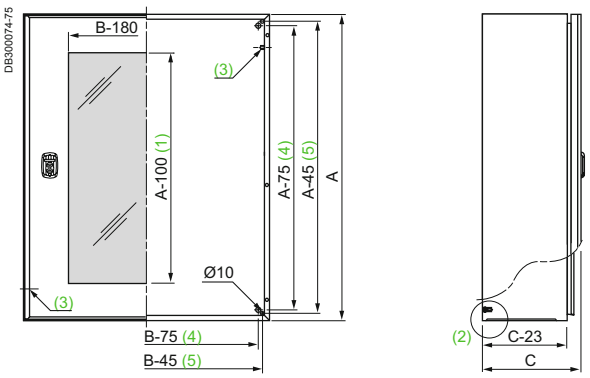
Characteristics			Composition accessories									
Dimensions (1) (mm)			Full width wall fixing lugs	Lateral plinth****		Plain front plinth (4)****		Support pillar adaptation plate	Support pillar	Floor stand kit for wall-mounting		Support bracket for enclosure with anti-tilt kit and reinforcement
H	W	D		100 mm	200 mm	100 mm	200 mm			300 mm	400 mm	1400 mm (5)
300	200	150	NSYAEFPFS3DW20	-	-	-	-	-	-	-	-	NSYCOCNS1400
	250	150	-	-	-	-	-	-	-	-	-	NSYCOCNS1400
	300	150	NSYAEFPFS3DW30	-	-	-	-	NSYAEFP315S3D	NSYCOCN80	-	-	NSYCOCNS1400
		200	NSYAEFPFS3DW30	-	-	-	-	NSYAEFP32S3D	NSYCOCN80	-	-	NSYCOCNS1400
	400	150	NSYAEFPFS3DW40	-	-	-	-	NSYAEFP315S3D	NSYCOCN80	-	-	NSYCOCNS1400
		200	NSYAEFPFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOCN80	-	-	NSYCOCNS1400
400	300	150	NSYAEFPFS3DW30	-	-	-	-	NSYAEFP315S3D	NSYCOCN80	-	-	NSYCOCNS1400
		200	NSYAEFPFS3DW30	-	-	-	-	NSYAEFP32S3D	NSYCOCN80	-	-	NSYCOCNS1400
	400	200	NSYAEFPFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOCN80	-	-	NSYCOCNS1400
	600	200	NSYAEFPFS3DW60	-	-	-	-	-	-	-	-	NSYCOCNS1400
		250	NSYAEFPFS3DW60	-	-	-	-	-	-	-	-	NSYCOCNS1400
500	300	200	NSYAEFPFS3DW30	-	-	-	-	NSYAEFP32S3D	NSYCOCN80	-	-	NSYCOCNS1400
	400	200	NSYAEFPFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOCN80	-	-	NSYCOCNS1400
		250	NSYAEFPFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOCN80	-	-	NSYCOCNS1400
	500	200	NSYAEFPFS3DW50	-	-	-	-	-	-	-	-	NSYCOCNS1400
		250	NSYAEFPFS3DW50	-	-	-	-	-	-	-	-	NSYCOCNS1400
600	400	200	NSYAEFPFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOCN80	-	-	NSYCOCNS1400
		250	NSYAEFPFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOCN80	-	-	NSYCOCNS1400
	500	250	NSYAEFPFS3DW50	-	-	-	-	-	-	-	-	NSYCOCNS1400
	600	200	NSYAEFPFS3DW60	-	-	-	-	-	-	-	-	NSYCOCNS1400
		250	NSYAEFPFS3DW60	-	-	-	-	-	-	-	-	NSYCOCNS1400
		300	NSYAEFPFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOCNS1400
		400	NSYAEFPFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOCNS1400
	800	300	NSYAEFPFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	-	-	NSYCOCNS1400
700	500	250	NSYAEFPFS3DW50	-	-	-	-	-	-	-	-	NSYCOCNS1400
800	600	200	NSYAEFPFS3DW60	-	-	-	-	-	-	-	-	NSYCOCNS1400
		250	NSYAEFPFS3DW60	-	-	-	-	-	-	-	-	NSYCOCNS1400
		300	NSYAEFPFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOCNS1400
		400	NSYAEFPFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOCNS1400
	800	250	NSYAEFPFS3DW80	-	-	-	-	-	-	-	-	NSYCOCNS1400
		300	NSYAEFPFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK33	NSYWMK34	NSYCOCNS1400
	1000	300	NSYAEFPFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	NSYCOCNS1400
		300	NSYAEFPFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	-	-	NSYCOCNS1400
	1200	300	NSYAEFPFS3DW120	-	-	-	-	-	-	NSYWMK33	NSYWMK34	NSYCOCNS1400
1000	600	250	NSYAEFPFS3DW60	-	-	-	-	-	-	-	-	NSYCOCNS1400
		300	NSYAEFPFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOCNS1400
		400	NSYAEFPFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOCNS1400
	800	250	NSYAEFPFS3DW80	-	-	-	-	-	-	-	-	NSYCOCNS1400
		300	NSYAEFPFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK33	NSYWMK34	NSYCOCNS1400
		400	NSYAEFPFS3DW80	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK43	NSYWMK44	-
	1000	300	NSYAEFPFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	-
		300	NSYAEFPFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	-
	1200	300	NSYAEFPFS3DW120	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYWMK33	NSYWMK34	-
		400	NSYAEFPFS3DW120	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	NSYWMK43	NSYWMK44	-
1200	600	300	NSYAEFPFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	-
		400	NSYAEFPFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	-
	800	300	NSYAEFPFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK33	NSYWMK34	-
		400	NSYAEFPFS3DW80	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK43	NSYWMK44	-
	1000	300	NSYAEFPFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	-
		300	NSYAEFPFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	-
		400	NSYAEFPFS3DW100	NSYSPS4100SD	NSYSPS4200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK43	NSYWMK44	-
	1200	300	NSYAEFPFS3DW120	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYWMK33	NSYWMK34	-
		400	NSYAEFPFS3DW120	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	NSYWMK43	NSYWMK44	-
1400	1000	300	NSYAEFPFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	-

(4) Also available in ventilated version with cable gland for widths of 600 and 800, see page 102.
*(5) Available in version 1800 mm: ref. **NSYCOCNS1800**.*

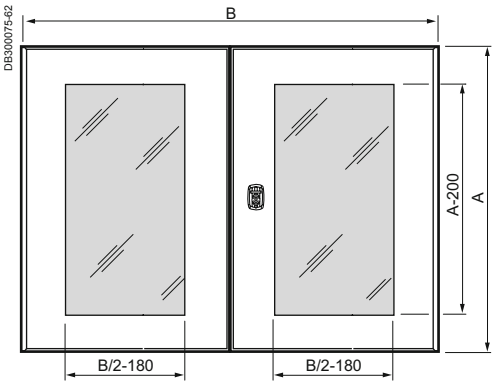
**** For the double mounting plates, order also ref. **NSYSDRSDCR300** (D300) or **NSYSDRSDCR400** (D400).*
***** To install the plinth to a wall-mounting enclosure, order ref. **NSYAPFWM**.*

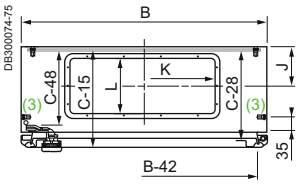
Steel wall-mounting enclosures
Dimensions

1-door enclosure



2-door enclosure

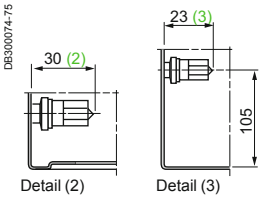




A: Enclosure height
B: Enclosure width
C: Enclosure depth

Enclosure (mm)		Cable-gland plate						
Width	**Depth**	**Dim. (mm)**	**Type**	**No.**	**J**	**K**	**L**	**Références**
200 - 250	150 - 250	140 x 80	A	1	57	115	55	**NSYTLA**
300 - 400	150	245 x 80	B	1	57	220	55	**NSYTLB**
300	200	245 x 130	C	1	80	220	105	**NSYTLC**
400	200 - 250	345 x 130	D	1	80	320	105	**NSYTLD**
500	200 - 250	445 x 130	E	1	80	420	105	**NSYTLE**
600	200 - 250	545 x 130	F	1	80	520	105	**NSYTLF**
600	300 - 400	495 x 220	G	1	126*	470	195	**NSYTLG**
800	250 - 300 - 400	345 x 130	D	2	95**	320	105	2 x **NSYTLD**
1000 - 1200	300 - 400	445 x 130	E	2	95	420	105	2 x **NSYTLE**

** Except enclosure 1000 x 600 x 400 mm, J = 140 mm.*
*** Except enclosure 600 x 800 x 300 mm, J = 80 mm.*



(1) A-200 from the height of 800 mm.
(2) 4 or 6 (widths 1000 - 1200 mm) M8 x 25 mm backstuds.
(3) 2 M6 x 17.5 mm earthing studs.
(4) Stud centre-to-centre distance.
(5) Centre-to-centre distance of the holes for direct fixing.

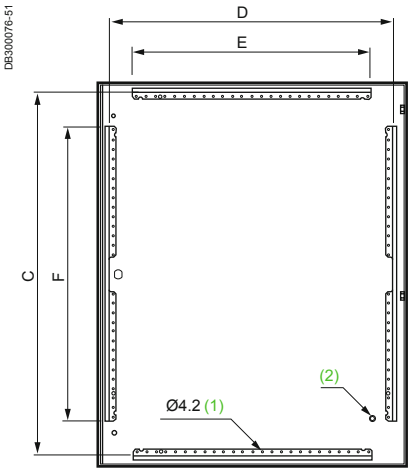
The DXF diagrams can be downloaded from our websites.

Steel wall-mounting enclosures
Dimensions

Perforated rails on plain door*

Enclosure* (mm)		Perforated rails on the door (mm)				Perforated rails on the double door (mm)				Perforated rails on the internal door (mm)			
		Vertical		Horizontal		Vertical		Horizontal		Vertical		Horizontal	
Height	Width	F	D	E	C	F	D	E	C	F	D	E	C
400	300	320	237	-	-	-	-	-	-	-	-	-	-
	400	320	337	-	-	-	-	-	-	-	-	-	-
	600	320	537	-	-	-	-	-	-	-	-	-	-
500	300	370	237	-	-	-	-	-	-	-	-	-	-
	400	370	337	-	-	-	-	-	-	-	-	-	-
	500	370	437	-	-	-	-	-	-	-	-	-	-
600	400	370	337	-	-	-	-	-	-	-	-	-	-
	500	370	437	-	-	-	-	-	-	-	-	-	-
	600	370	537	-	-	-	-	-	-	-	-	-	-
	800	370	737	-	-	-	-	-	-	-	-	-	-
700	500	470	437	-	-	-	-	-	-	-	-	-	-
800	600	570	537	-	-	-	-	-	-	-	-	-	-
	800	570	737	620	749	-	-	-	-	-	-	-	-
	1000	570	937	820	749	570	437	320	749	620	437	320	749
	1200	-	-	-	-	570	537	420	749	620	537	420	749
1000	600	770	537	420	949	-	-	-	-	-	-	-	-
	800	770	737	620	949	-	-	-	-	-	-	-	-
	1000	770	937	820	949	770	437	320	949	820	437	320	949
	1200	-	-	-	-	770	537	420	949	820	537	420	949
1200	600	970	537	420	1149	-	-	-	-	-	-	-	-
	800	970	737	620	1149	-	-	-	-	-	-	-	-
	1000	970	937	820	1149	970	437	320	1149	1020	437	320	1149
	1200	-	-	-	-	970	537	420	1149	1020	537	420	1149
1400	1000	-	-	-	-	970	437	320	1349	1020	437	320	1349

** The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal cable guides.*



** The glazed doors are equipped with a vertical cable guide, on the hinge side.*
(1) Perforations in steps of 25 mm.
(2) 1 M6 x 17.5 mm earthing stud.

Download

Download the configuration sheets and DXF diagrams from www.schneider-electric.com
Send them back to your local Schneider Electric office.
Take advantage of a shorter delivery time!

Steel wall-mounting enclosures

Specific accessories overview

PB500294-77



Composition accessories

Fixing

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Floor

PB502578-30



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Coupling

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Hoisting

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Protection

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Handles

PB500343-30



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Locks

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Door accessories

PB500328-26



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Cable-gland plates

PB500324-30



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Mounting accessories

PB500072-20



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Steel wall-mounting enclosures
Common accessories overview

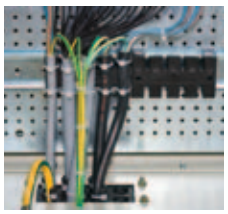
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Cable management

Cable holding

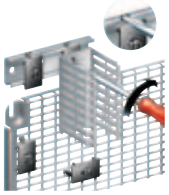
PB500966-40



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Cable ducting

PB500959-22



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Thermal management

Heaters

PB502050-29



Page 540

Ventilation

PB501044-26



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Cooling units

PB502814-15

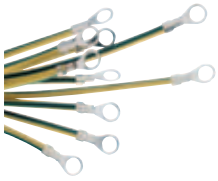


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Others

Earthing

PB500217-29



Page 300

Installation accessories

PB500072-20



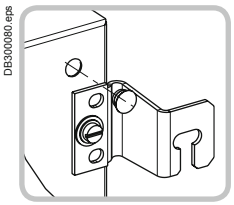
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Steel wall-mounting enclosures
Accessories

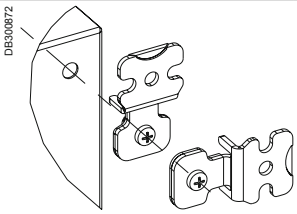
Fixing





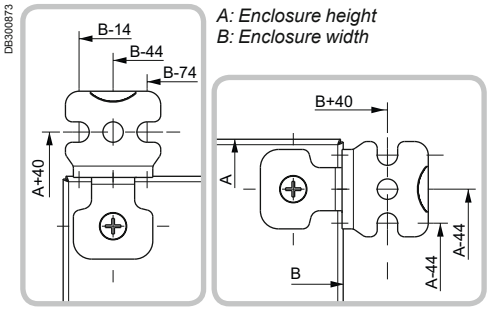


Characteristics	Wall-fixing lugs				Kit for heavy loads	Wall-fixing lugs with wall-enclosure separation
	Set of 4 wall-fixing lugs. Mounted directly on the rear of the enclosure, either in horizontal or vertical position. Wall-enclosure separation of 10 mm. Do not use for dynamic loads.			covers	Kit made up of 2 reinforcement pieces. To be mounted before installing the mounting plate in top position with the standard lugs (to be ordered separately).	Batch of 4 wall-fixing lugs. Separation of 40 mm from the wall at the rear of the enclosure. Need to drill a hole to prevent rotation.
Material	Passivated zinc-coated steel	304L	Passivated zinc-coated steel	Passivated zinc-coated steel	Passivated zinc-coated steel	Passivated zinc-coated steel
Maximum load	150 kg			-	400 kg	100 kg
Supply	Supplied with fixing screws and pre-mounted sealing gaskets		4 fixing brackets + covers	Kit of 4 covers	-	-
References						
	NSYAEFPFSC	**NSYAEFPFXSC**	**NSYAEFPFSC2***	**NSYCAEFPF**	**NSYAEFAHLBSC**	**NSYAEFPF40SC**



Installation from the outside.

Fixing centre-to-centre distance with lugs (M6/M8 screw)



A: Enclosure height
B: Enclosure width

Vertical position. *Horizontal position.*

You will find the weights of the Spacial S3D enclosures without mounting plate in the selection guide on page 50.
**Available in september 2016.*

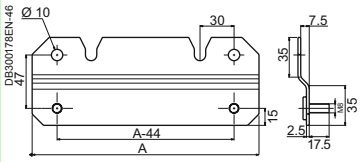
Steel wall-mounting enclosures
Accessories

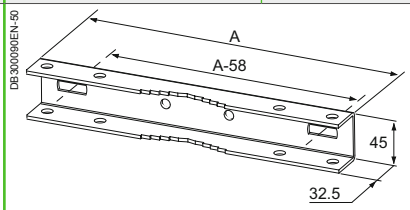
Fixing

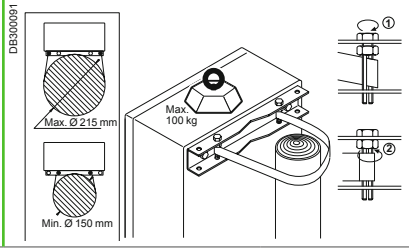




Characteristics	Full-width wall fixing lugs	Post-fixing device for Spacial steel enclosure	
	Kit made of 2 parts (top and bottom). Screwed from the inside.	For indoor installations on posts with a maximum circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm). Rail fixed to the inserts in the rear of the enclosure with 8-mm screws. They allow the mounting of protection canopies.	
Material	Passivated zinc-coated steel	Galvanised steel	
Maximum load	350 kg	100 kg	
Width (mm)	**References**	**A (mm)**	**References**
200	**NSYAEFPFS3DW20**	-	-
300	**NSYAEFPFS3DW30**	295	**NSYSFPSC30**
400	**NSYAEFPFS3DW40**	395	**NSYSFPSC40**
500	**NSYAEFPFS3DW50**	495	**NSYSFPSC50**
600	**NSYAEFPFS3DW60**	595	**NSYSFPSC60**
800	**NSYAEFPFS3DW80**	795	**NSYSFPSC80**
1000	**NSYAEFPFS3DW100**	-	-
1200	**NSYAEFPFS3DW120**	-	-
	A: Width of enclosure		

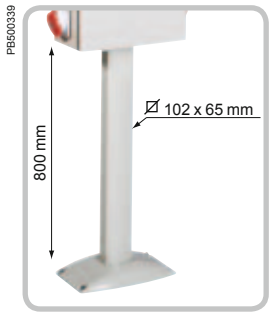




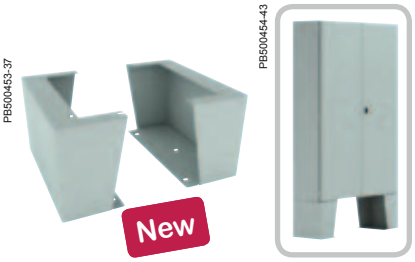


Steel wall-mounting enclosures
Accessories

Fixing

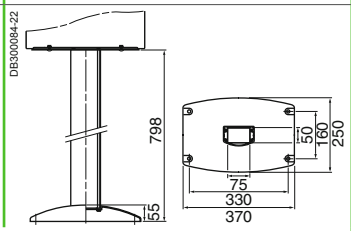






Characteristics	Support pillar	Support bracket for enclosure with anti-tilt kit and reinforcement	Floor Stand Kit for wall-mounting enclosure
	The support pillar is fixed directly to the bottom face of the Spacial steel enclosure by means of an adapter plate. The latter, to be ordered in addition to the pillar, replaces the cable-gland plate. Overall height of the support foot: 800 mm. Mounting possible on all enclosures with dimensions up to 600 x 400 x 250 mm (except 200 x 200 x 150 and 250 x 200 x 150 enclosures).	The support bracket for Spacial S3D steel enclosures is used when the enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Compatible with other enclosure ranges: ■ S3X (stainless-steel), ■ S3HF (EMC), ■ Thalassa (polyester). Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.	Set of 2 feet, elevating wall-mounting enclosures. Cut-outs needed on enclosure – drilling template provided with the kit.
Material	Extruded aluminium	Steel	Steel
Finish	Polyester powder	Painted	Polyester powder
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
Thickness	-	-	■ Sides: 25/10[e] mm ■ Base: 30/10[e] mm
Maximum load	-	120 kg	250 kg
Supply	-	-	2 platform feet (right and left) and fixing elements

Height (mm)	Reference	References	Enclosure depth		Foot height		References
			mm	Inches	mm	Inches	
800	**NSYCOCN80**	-	-	-	-	-	-
1400	-	**NSYCOCNS1400**	-	-	-	-	-
1800	-	**NSYCOCNS1800**	-	-	-	-	-
-	-	-	300*	12	300	12	**NSYWMK33**
-	-	-	400**	16	300	12	**NSYWMK43**
-	-	-	300*	12	450	18	**NSYWMK34**
-	-	-	400**	16	450	18	**NSYWMK44**



** When enclosures are equipped with a cable gland plate, it only fits with enclosures of width 800, 1000 & 1200 mm, except model H 600 x W 800 x D 300 mm.*
*** When enclosures are equipped with a cable gland plate, it does not fit with enclosures of width 600 mm.*

Compatible with Spacial S3D & S3DC enclosures.

Support pillar adaptation plate



Description: plate for fixing the support pillar on the enclosure.
This plate replaces the cable-gland plate delivered with the enclosure.
Material: steel
Finish: polyester powder
Colour: RAL 7035 grey

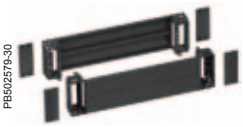
For enclosure (mm)		References
Width	Depth	
300-400	150	**NSYAEFP315S3D**
300	200	**NSYAEFP32S3D**
400	200-250	**NSYAEFP42S3D**

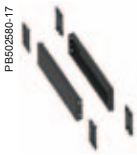
Steel wall-mounting enclosures
Accessories

Floor

For more information, see page 98.


PB502578-30


PB502579-30


PB502580-17


PB502581-18

Characteristics	Front and rear plinth	Plinth side panels
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.
Material	Folded sheet steel, corner with a thickness of 25/10e mm	Folded sheet steel
Finish	Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
Colour	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP30	IP30
Mechanical protection rating	IK10	IK10
Installation	It is necessary to order separately the plinth fixing kit (ref. **NSYAPFWM**) composed by fixing hardware and drilling jig	
Supply	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements

References

Width (mm)	Depth (mm)	100 mm	200 mm	100 mm	200 mm
600	-	**NSYSPF6100**	**NSYSPF6200**	-	-
800	-	**NSYSPF8100**	**NSYSPF8200**	-	-
1000	-	**NSYSPF10100**	**NSYSPF10200**	-	-
1200	-	**NSYSPF12100**	**NSYSPF12200**	-	-
-	300	-	-	**NSYSPS3100SD**	**NSYSPS3200SD**
-	400	-	-	**NSYSPS4100SD**	**NSYSPS4200SD**


PB502589-30

Plinth height 100 mm (4 corners + front and back)


PB502591-18

Plinth height 100 mm (Set of 2 side panels)


PB502590-30

Plinth height 200 mm (4 corners + front and back)


PB502592-21

Plinth height 200 mm (Set of 2 side panels)

Characteristics	Stainless-steel plinths	
Material	Stainless-steel, AISI 304L	Stainless-steel, AISI 316L
Finish	Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion	
Installation	It is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing hardware and drilling jig	

External dimensions (mm)			Plinth height 100 mm		Plinth height 200 mm		Plinth height 100 mm		Plinth height 200 mm	
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)
800	800	300	**NSYSPFX8100**	**NSYSPSX3100**	**NSYSPFX8200**	**NSYSPSX3200**	**NSYSPFX8100H**	**NSYSPSX3100H**	**NSYSPFX8200H**	**NSYSPSX3200H**
1000	800	300	**NSYSPFX8100**	**NSYSPSX3100**	**NSYSPFX8200**	**NSYSPSX3200**	**NSYSPFX8100H**	**NSYSPSX3100H**	**NSYSPFX8200H**	**NSYSPSX3200H**
	1000	300	**NSYSPFX10100**	**NSYSPSX3100**	**NSYSPFX10200**	**NSYSPSX3200**	**NSYSPFX10100H**	**NSYSPSX3100H**	**NSYSPFX10200H**	**NSYSPSX3200H**
1200	800	300	**NSYSPFX8100**	**NSYSPSX3100**	**NSYSPFX8200**	**NSYSPSX3200**	**NSYSPFX8100H**	**NSYSPSX3100H**	**NSYSPFX8200H**	**NSYSPSX3200H**
	1000	300	**NSYSPFX10100**	**NSYSPSX3100**	**NSYSPFX10200**	**NSYSPSX3200**	**NSYSPFX10100H**	**NSYSPSX3100H**	**NSYSPFX10200H**	**NSYSPSX3200H**

Steel wall-mounting enclosures
Accessories

Coupling



Installation example.

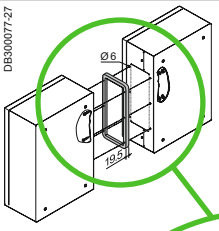


Version without cable entry.

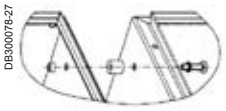


Version with cable entry.

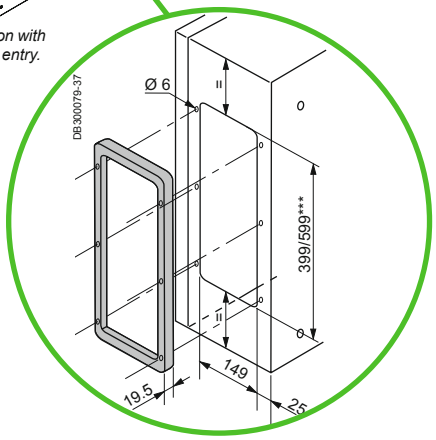
Characteristics	Coupling of Spacial steel enclosures
	Available in 2 versions: ■ Coupling version without cable entry. ■ Version with coupling frame allowing the entry of cables. ■ Separation of 17 mm between 2 coupled enclosures, allowing full opening of the doors. Allows lateral coupling of 2 enclosures. These frames allow the door to open to 120°.
Material	Polyester charged with fibreglass, self-extinguishing
Ingress protection rating	IP66
Supply	■ Kit made up of 4 spacers and their fixings ■ Mounting by screws, included
References	
Batch of 4 coupling spacers	**NSYAEUBUSC**
Coupling frame, 435 x 185 mm	**NSYAEUBU41SC**
Coupling frame, 635 x 185 mm	**NSYAEUBU61SC**



Version with cable entry.



Version without cable entry.

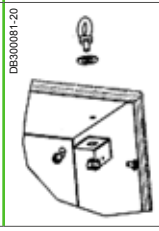


Steel wall-mounting enclosures
Accessories

Hoisting



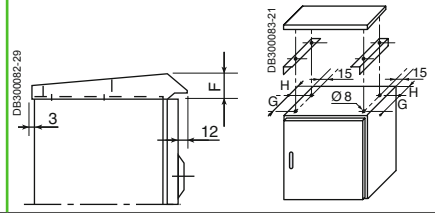
Characteristics	Eyebolts
	Set of two M8 eyebolts. They are fixed directly to the body of the floor-standing enclosure. Cannot be installed with the canopy in place or if it is planned to put one.
Material	Zinc-coated moulded steel
Maximum load	210 kg per enclosure when slinging at 60°
Supply	Reinforcing brackets attached to the rings (these brackets also act as a drilling template)
Reference	
Batch of 2 M8 eyebolts	**NSYAELYTCRG8**



Protection



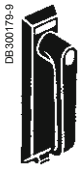
Characteristics	Protection canopy			
	Direct fixing to the body of the enclosure by 4 M6 screws. To be used for all outdoor installations.			
Material	Sheet steel			
Finish	Painted galvanised steel, structured finish			
Colour	RAL 7035 grey			
Supply	Delivered with the fixings required for installation			
Depth (mm) **Width (mm)**	**F (mm)**	**G (mm)**	**H (mm)**	**References**
150 200	36	75	23	**NSYTJ2015**
250	36	75	23	**NSYTJ2515**
300	36	75	23	**NSYTJ3015**
400	36	75	23	**NSYTJ4015**
500	36	75	23	**NSYTJ5015**
200 500	36	130	23	**NSYTJ5020**
600	36	130	23	**NSYTJ6020**
250	36	130	23	**NSYTJ2520**
300	36	130	23	**NSYTJ3020**
400	36	130	23	**NSYTJ4020**
800	36	130	23	**NSYTJ8020**
250 400	42	150	48	**NSYTJ4025**
500	42	150	48	**NSYTJ5025**
600	42	150	48	**NSYTJ6025**
800	42	150	48	**NSYTJ8025**
300 600	42	200	48	**NSYTJ6030**
800	42	200	48	**NSYTJ8030**
1000	42	200	48	**NSYTJ10030**
1200	42	200	48	**NSYTJ12030**
400 600	42	300	48	**NSYTJ6040**
800	42	300	48	**NSYTJ8040**
1000	42	300	48	**NSYTJ10040**
1200	42	300	48	**NSYTJ12040**



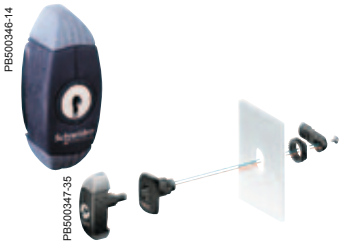
Steel wall-mounting enclosures
Accessories

Handles





Characteristics	Standard handle	Handle lock operated using screwdriver insert
	Operating handle delivered with the enclosure. ■ It can be attached to the locking system by means of a fixing element. ■ It can also be used to loosen the caps protecting the studs when painting.	-
References		
	-	**NSYTSMLS3D**



Caractéristiques	Standard handles with keys
	Attractive and ergonomic bi-material handle. ■ Large range of barrels covering all the most common needs. ■ The installation of the standard handle does not require the escutcheon to be removed.
Composition	Delivered with 2 keys
References	
405	**NSYAEDL405S3D**
421	**NSYAEDL421S3D**
455	**NSYAEDL455S3D**
520	**NSYAEDL520S3D**
601	**NSYAEDL601S3D**
610E	**NSYAEDL610S3D**
705E	**NSYAEDL705S3D**
1242	**NSYAEDL1242S3D**
1332E	**NSYAEDL1332S3D**
1344E	**NSYAEDL1344S3D**
2124E	**NSYAEDL2124S3D**
2131A	**NSYAEDL2131S3D**
2132A	**NSYAEDL2132S3D**
2133A	**NSYAEDL2133S3D**
2241A	**NSYAEDL2241S3D**
2244E	**NSYAEDL2244S3D**
2314E	**NSYAEDL2314S3D**
2322A	**NSYAEDL2322S3D**
2331A	**NSYAEDL2331S3D**
2432E	**NSYAEDL2432S3D**
2433A	**NSYAEDL2433S3D**
3113A	**NSYAEDL3113S3D**
3123E	**NSYAEDL3123S3D**
3131A	**NSYAEDL3131AS3D** New
3132A	**NSYAEDL3132S3D**
3432E	**NSYAEDL3432S3D**
3524E	**NSYAEDL3524S3D**
4322A	**NSYAEDL4322S3D**
4324E	**NSYAEDL4324S3D**
5124A	**NSYAEDL5124S3D**

Steel wall-mounting enclosures
Accessories

Locks

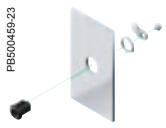








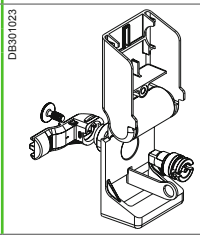
Characteristics	Standard locks	Barrel DIN kit	Double bar 3 mm metal lock	Metal cam kit 1 point and 3 points
	Spacial S3D wall-mounting enclosures are supplied with a 3 mm double-bar lock as standard. ■ Spare lock: order ref. **NSYAEDLS3DRL** (escutcheon + cam + washer). ■ Large range of standardised inserts covering all the most common needs. ■ Installation and removal with a single screw.	■ Mounting of half-cylinder according to DIN 18252 (EN1303) brass nikel plated with 2 keys. Cam can be turned every 45°. ■ Easy mounting instead of standard lock.	Easy mounting instead of standard lock.	To adapt other locks.
Material	-	Polyamide GF	Zamack	Zinc-coated metal
Mechanical protection rating	-	IP66	-	-
Supply	Delivered with 1 plastic key	Delivered with metal cam 1 point and metal cam 3 points	Delivered with metal cam 1 point and metal cam 3 points	-
References				
-	-	**NSYAEDDINS3D***	**NSYAEDLB3MS3D***	**NSYAEDLMETS3D**
6 mm square	**NSYAEDLS6S3D**			
7 mm square	**NSYAEDLS7S3D**			
8 mm square	**NSYAEDLS8S3D**			
3 mm double bar	**NSYAEDLB3S3D**			
5 mm double bar	**NSYAEDLB5S3D**			
CNOMO 6.5 mm triangular	**NSYAEDLT6S3D**			
8 mm triangular	**NSYAEDLT8S3D**			







Characteristics	Other lock with screwdriver insert and metal latch	Padlock	Other locks with keys	
	-	Easy mounting instead of the standard lock.	Easy mounting instead of the standard lock.	
Material	-	Zamack	-	
Supply	-	Delivered with 3 mm double-bar metal key	Metal cam supplied	
References				
		Padlockable (1)		
	NSYAEDLSDS3D	**NSYAEDLPADS3D**	EDF 900	**NSYAEDLEDF9S3D**
			EDF 1300	**NSYAEDLEDF13S3D**
			EDF 1400	**NSYAEDLEDF14S3D**



(1) Diameter 8 mm.





Characteristics	"Push-close" locking system
	The Spacial S3D enclosures can be transformed into push-close enclosures. ■ The push-close enclosure is used in various applications and fully meets the security demands of the market. ■ Locking system with a 6.5-mm push-close system in accordance with CNOMO standards. ■ This system allows the door to be closed and locked by simply pushing it. ■ System made up of a lock and a closure plate. ■ It is only installed on enclosures with 1 locking point (H < 600 mm). ■ Other dimensions: contact us.
Mechanical protection rating	IP55
References	
-	**NSYAEDLPSS3D**

Steel wall-mounting enclosures
Accessories

Door accessories

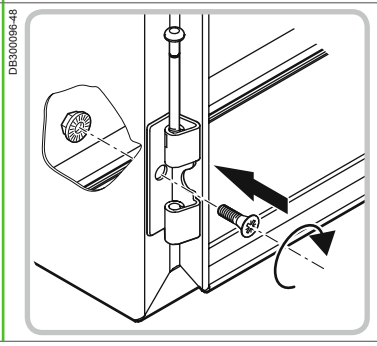


180° hinge.



120° hinge.

Characteristics	Door hinges
	Captive pin, indexed by a spring.
Material	Zamack body for ref. **NSYAEDH180S3D**, treated sheet-steel body for ref. **NSYAEDH120S3D**, aluminium pin
Maximum load	■ For the 180° hinge, the maximum admissible load on the door is 20 kg/m² ■ For the 120° hinge, the maximum admissible load on the door is 50 kg/m²
Supply	Batch of 1 hinge, delivered with fixings
Models	**References**
180° hinge for S3D enclosure	**NSYAEDH180S3D**
Standard 120° hinge for S3D	**NSYAEDH120S3D**









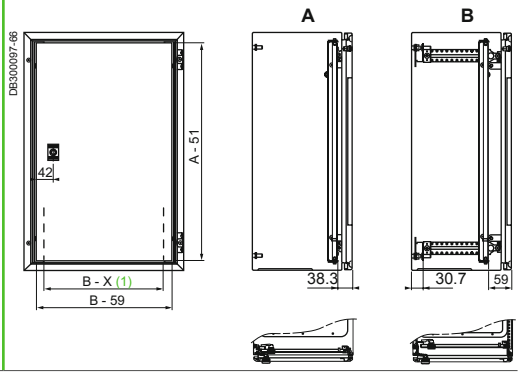
	Door switch	Door retainer	
		Steel	**Polyamide**
See page	295	297	297
Supply	1	1	1
References			
	NSYINLCRN	**NSYAEDRSCST**	**NSYAEDRS3DPA6**

Steel wall-mounting enclosures
Accessories

Door accessories



Characteristics	Internal door
	■ Locking with 3-mm double-bar lock. ■ The internal door can be installed directly on the front face of the enclosure or on the step slides (not supplied as standard). ■ To mount an inner door and a mounting plate at the same time on the step slides is possible as standard. ■ Incompatible with the installation of the door stop and door switch. For further details, please consult us.
Material	Sheet-steel
Colour	RAL 7035 grey
Maximum load	30 kg/m^2
Dimensions (mm)	**References**
H 400 x W 300	**NSYPIN43**
H 500 x W 400	**NSYPIN54**
H 600 x W 400	**NSYPIN64**
H 700 x W 500	**NSYPIN75**
H 800 x W 600	**NSYPIN86***
H 1000 x W 600	**NSYPIN106***
H 1000 x W 800	**NSYPIN108***
H 1200 x W 600	**NSYPIN126**
H 1200 x W 800	**NSYPIN128***
	Installation on the front of the enclosure (A) or installation on step slides (B).



** Equipped with welded vertical profiles in order to facilitate cable management.*
(1) Dimension resulting from installation on step slides: B-83 mm.
Dimension resulting from direct installation (without step slides): B-91 mm.

Steel wall-mounting enclosures
Accessories

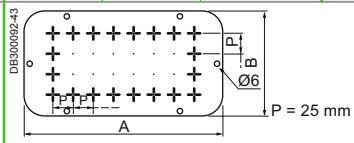
Cable-gland plates

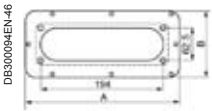




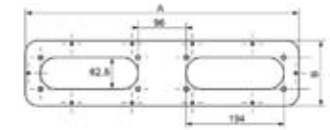
Characteristics	Standard cable-gland plate	Aluminium cable-gland plate	Cable-gland plates with FL type cut-out for cable-gland membranes
	Plate delivered as standard with the Spacial S3D universal enclosure. Surface with markings in steps of 25 mm, to facilitate drilling.	Suitable for non-magnetic applications.	Mounting instead of the Spacial S3D plate. Cut-outs for installation of membranes type FL 21 (1), page 279.
Material	Steel	Brushed-finish aluminium	Steel, structured finish RAL 7035
Thickness	15/10e mm	30/10e mm	-
Ingress protection rating	-	-	-
Certifications	-	-	-
Fixing	Fixing by 4, 6, 8, 10 or 12 screws, according to the model	Fixing by 4, 6, 8, 10 or 12 screws, according to the model	Fixing by 4, 6, 8, 10 or 12 screws, according to the model
Other characteristics	-	-	-
Supply	-	-	-

For wall-mounting enclosures (mm)		Type	Plate dimensions (mm)		References					
Width	Depth		Width (A)	Depth (B)	No. of Ø 6 holes	No. of markings		No. of Ø 6 holes		
200-250	150	A	140	80	4	8	**NSYTLA**	4	**NSYTLAU**	**NSYTLAFL** (4)
300-400	150	B	245	80	4	16	**NSYTLB**	4	**NSYTLBU**	**NSYTLBFL** (3)
300	200	C	245	130	6	32	**NSYTLC**	6	**NSYTLCU**	**NSYTLCFL**
400	200-250	D	345	130	8	48	**NSYTLD**	8	**NSYTLDU**	**NSYTLDFL**
500	200-250	E	445	130	9	64	**NSYTLE**	9	**NSYTLEU**	**NSYTLEFL**
600	200-250	F	545	130	10	80	**NSYTLF**	10	**NSYTLFU**	**NSYTLFFL**
										NSYTLF2FL (2)
	300-400	G	495	220	12	126	**NSYTLG**	12	**NSYTLGU**	**NSYTLGFL**
										NSYTLG2FL
										NSYTLG4FL (2)
800	250-300-400	D*	345	130	-	-	2 x **NSYTLD**	-	2 x **NSYTLDU**	2 x **NSYTLDFL**
1000-1200	300-400	E*	445	130	-	-	2 x **NSYTLE**	-	2 x **NSYTLEU**	2 x **NSYTLEFL**

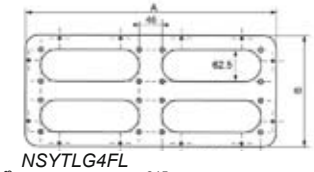




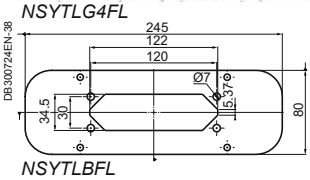
NSYTLBFL, NSYTLCFL, NSYTLDFL, NSYTLEFL, NSYTLFFL, NSYTLGFL



NSYTLF2FL, NSYTLG2FL



NSYTLG4FL



NSYTLBFL

** Enclosure with 2 cable-gland plates. - (1) Cut-out FL13 for depth 150 mm; and cut-out FL21 for other depths.*
*(2) With 2 FL21 cut-outs: ref. **NSYTLG2FL**; with 4 FL21 cut-outs: ref. **NSYTLG4FL**.- (3) **NSYTLBFL** with FL13 cut-out.*
*(4) **NSYTLAFL** cannot be mounted on enclosure width 200 and depth 150.*

Steel wall-mounting enclosures
Accessories

Cable-gland plates

PB501865-38

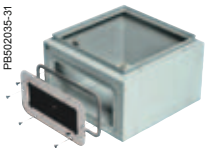


FlexiCable cable entries

	FlexiCable is an innovative cable-gland plate for simple and fast cable entrance. There is no need to drill holes: the creation of the cable entrances takes a few seconds. ■ **Installation possibilities:** replaces cable-gland plate (S3D) or directly on enclosure. ■ **Cable diameter:** up to 26 mm.
	-
	-
	IP55
	■ Fire resistant 650°C following IEC 60695-2-11 ■ Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1
	-
	Exists in 5 sizes matching 46 sizes (132 models) of Spacial S3D steel wall-mounting enclosures
	■ 1 metallic frame with pre-mounted membrane ■ 1 gasket ■ Hardware

Effective cable entrance dimensions (mm)	
-	-
-	-
178 x 63	**NSYTLCME**
278 x 63	**NSYTLDME**
378 x 63	**NSYTLEME**
478 x 63	**NSYTLFME**
428 x 153	**NSYTLGME**
-	2 x **NSYTLDME**
-	2 x **NSYTLEME**

PB502035-31



Mount FlexiCable on your S3D enclosure.

PB501867-37



Create a hole with a screw driver.

PB501866-35



Push the cable through FlexiCable and finish-off your installation.

FlexiCable repair kit

PB502597-40

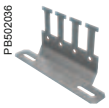


To fill-in unused holes.

Reference
NSYTLREP

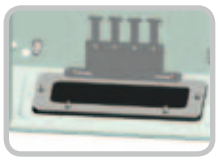
Cable management solutions for Flexicable plate

Cable-guide to be mounted directly on Flexicable plate

Description		Supply	Reference
PB502036 	Cable-guide for Flexicable plate	1	**NSYEDCME**

Example of mounting

PB502032-28



PB502033-31



Cable-guide to be mounted on adjustable step slides

■ To be mounted on adjustable step slides **NSYSDCREC••** or **NSYSDCR••**.
■ Direct mounting of cable guides **NSYTFPCRN••** on bracket.

Description		Supply	References
PB502037 	Bracket for adjustable step slide	2	**NSYEDCSDCR**
PB502039 	Adjustable step slide, depth 200 mm	2	**NSYSDCREC200**
	depth 250 mm	2	**NSYSDCREC250**
	depth 300 mm	2	**NSYSDCREC300**
	depth 400 mm	2	**NSYSDCREC400**
PB502038 	Cable-guide for wall-mounting enclosure, door width 400 mm	2	**NSYTFPCRN4**
	500 mm	2	**NSYTFPCRN5**
	600 mm	2	**NSYTFPCRN6**
	800 mm	2	**NSYTFPCRN8**
	1000 mm	2	**NSYTFPCRN10**

Example of mounting

PB502034-28

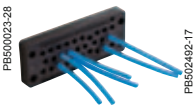


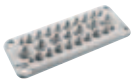
Steel wall-mounting enclosures
Accessories

Cable entries overview

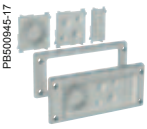

PB501700-17


PB500024-33


PB500023-28


PB502492-17


DB300733-16

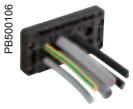

PB600945-17

Characteristics	Multi-A	Multi-C	Multi-R	Multi-T	Prisma	Multi-F
	FL13 & FL21 type membranes.	Circular connector-free entries.	Rectangular connector-free entries.	FL21-type membranes.	FL21 or rectangular.	FL13 & FL21 pre-configured flanges.
Material	TPE, SBS, SEBS and PP co-polymer - halogen free	Polyamide	Polyamide	TPE	Insulating material	Fibreglass-reinforced polypropylene and TPE - Halogen Free
Colour	RAL 7035	-	-	RAL 7035	-	RAL 7035
Cable entry material	Combined	Soft membrane				
Cable glands to be fitted	Optional: specific cable clamp ref. **NSYAECPFLACA●●** to be used	No	No	No	No	No
Installation possibilities	On cable gland plate adapter or directly on enclosure	On modified cable gland plate or directly on enclosure	On cable gland plate with special cut-out or directly on enclosure	On cable gland plate adapter or directly on enclosure	On cable gland plate adapter or directly on enclosure	On cable gland plate adapter or directly on enclosure
Flexibility of the installation	Medium	Medium	Medium	Medium	Medium	Medium
Reversibility	Medium	Full	Full	Medium	Medium	Medium
Ingress protection rating	IP65	IP65	IP65	IP66	IP55	IP65
Cable retention	High with cable clamp, (upto 18 daN)	Medium	Medium	Low	Low	Low
Cable diameter (mm)	From 13 to 30	From 3 to 15.9	From 4.3 to 15.9	From 5 to 60	From 28 to 60 (FL21) From 7 to 72 (rectangular)	From 16 to 50
Cable Installation time	Medium	Fast	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	++	++	++	++	++	++
Cable entries for cables with connectors	No	No	No	No	No	No
Cut-out dimensions (mm)	FL13 and FL21	Ø 50.5 Ø 63.5	112 x 36	FL21	FL21	134 x 52 (FL13) 214 x 90 (FL21)
External dimensions (mm)	216 x 84	Ø 58 Ø 71	146 x 14 x 58	214 x 88	216 x 84	From 134 x 52 to 214 x 90
Certificates	Cable anchorage pull test: EN 50262. Long term UV-resistance: ASTM G 154-06	■ UL 94 V-0 ■ Fire resistance: V0	■ UL 94 V-0 ■ Fire resistance: V0	UL 94 V-0	-	■ UL 94-HB ■ Test standard EN 60529:1991 + A1 EN 60670-1:2005, EN 50262:1998 EMKO-TUI (03-SEC)FI001/84. Semko report 816003 ■ UL-approved materials
Flame resistance	750°C	650°C	650°C	650°C	-	-
Temperature range	-40 to +85°C	-	-	-	-	-20°C to +125°C (1)
References*						
	NSYAECPFLA7 **NSYAECPFLA10** **NSYAECPFLA25** **NSYAECPFLA33**	**NSYTSAM504SE** **NSYTSAM508SE** **NSYTSAM638SE** **NSYTSAM6313SE**	**NSYTSA2414SE** **NSYTSA2417SE** **NSYTSA2422SE** **NSYTSA2423SE** **NSYTSA2429SE**	**NSYAECPFLBP**** **NSYAECPFLT7** **NSYAECPFLT25** **NSYAECPFLT35**	**08881** **08892** **08895** **08897** **08898** **08899**	**NSYAECPKFL11** **NSYAECPKFL7A** **NSYAECPKFL7B** **NSYAECPKFL10**

** For details, type the reference in the search engine of www.schneider-electric.com.*
*** Metallic plate.*
(1) "Pop-out" membranes only.

Steel wall-mounting enclosures
Accessories

Cable entries overview


PB500106


PB500944-17


PB500266-52


PB500975-15


PB500267-10


PB500976-11


PB500099-9

	Multi-CR	Multi-H	Simple-1	Simple-2	Simple-3	Simple-4	Simple-5
	Cable entries with dies for cables equipped with connectors.	FL21 insulated flange with ISO knockouts.	Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10e - 32/10e mm.	Quick cable entries for enclosure thickness 10/10e - 40/10e mm (5/10e - 20/10e mm for ref. **IMT36179**).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10e - 15/10e mm.	ISO cable gland.
	Polyamide	Polycarbonate glass-fiber reinforced	SBS	PVC	EPDM plastic	PVC	PA6, neoprene gasket
	-	RAL 7035	RAL 7035 light grey or RAL 9010 white	-	■ Grey: NCS 5500 ■ Black : NCS 9000	-	RAL 7035 grey
	Hard plastic		Soft membrane		Combined		
	Yes	Yes	Not applicable				
	On cable gland plate adapter or directly on enclosure	On cable gland plate adapter or directly on enclosure	On cable gland plate or directly on enclosure				
	Low	Low	Low				
	Medium	Medium	Medium				
	IP54	IP65	IP55	IP55	IP67	IP55	IP68
	High (with fastener)	High (with cable clamp)	Low	Low	Medium	Low	High
	From 3 to 31	From 12 to 25	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44	From 12 to 40
	Slow	Slow	Fast	Fast	Fast	Fast	Slow
	++	++	+	+	+	+	+
	Yes	No	No	No	No	No	No
	36 x 112	FL21	Various circular hole diameters according to cable diameter				
	146 x 58	215 x 85	-	From Ø 25 to 98	-	From Ø 25 to 52	From Ø 15 to 46
	-	UL 94 V-1	-	-	-	-	Glow wire resistance: 960°C
	650°C	750°C	750°C	-	750°C	-	750°C
	-	■ For normal operation: -40°C to +80°C ■ For a short time: -40°C to +120°C	-	-	-	-	-
	NSYDCE168 **NSYDCE240** **NSYDCE244** **NSYDCE2410**	**NSYTSAKFL**	**ISM71071** **ISM71072** **ISM71073** **ISM71074** **IMT36172** **IMT36173**	**NSYECPC3** **NSYECPC5** **NSYECPC6** **NSYECPC9** **NSYECPC15**	**IMT36179** **IMT36180** **IMT36181** **IMT36182** **IMT36183** **IMT36184** **IMT36185**	**NSYEC1** **NSYEC2** **NSYEC3** **NSYEC4** **NSYEC5** **NSYEC6** **NSYEC7**	**ISM71501** **ISM71502** **ISM71503** **ISM71504** **ISM71505** **ISM71506**

Steel wall-mounting enclosures
Accessories

PB503347-30



Ease of installation

PB503348-30



Door switch mounting possibility

PB503370-38



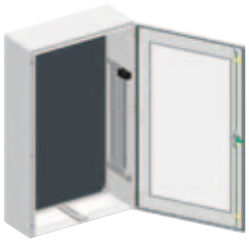
With DIN rail

PB503371-40



With light cross rails and cage nut

PB503372-33



With quick-fixing cross rail

Mounting rail

PB503345-40



Characteristics	Mounting rail
	■ Accessory designed to optimize the available space in the cubicle. ■ It is intended for the installation of switchgear complementing the chassis. ■ Mounting possible after installing the mounting plate. ■ It is mounted horizontally, with a single screw, on the side panels. ■ Door switch mounting possibility. ■ It is possible to vertically fasten NSYSLCR●● light cross rails (description on page 232) and NSYSQCR●● quick-fixing cross rails (description on page 231).
Material	Galvanised steel
Maximum load	6 kg
Supply	Set of 2 cross rails
Cubicle depth (mm)	**References**
200	**NSYSUCR200WM**
250	**NSYSUCR250WM**
300	**NSYSUCR300WM**
400	**NSYSUCR400WM**

PB503346-51



Steel wall-mounting enclosures
Additional information

PB500366-34



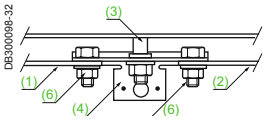
(1) Left mounting plate.
(2) Right mounting plate.
(3) Central backstud.
*(4) Bracket ref. **NSYCRNGSDR** with 2 M8 x 20 mm screws.*
*(5) Step slide ref. **NSYSDRSDCR300** (depth 300), **NSYSDRSDCR400** (depth 400).*
(6) M8 x 20 mm screw.

Installation of 2 mounting plates in the enclosures
with width of 1000 or 1200 mm and depth of 300 or 400 mm

Step slides, page 216.

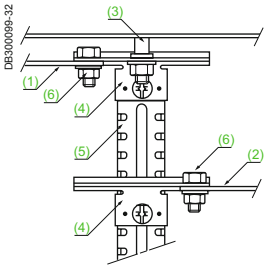
1 - On the 6 backstuds

DB300098-32

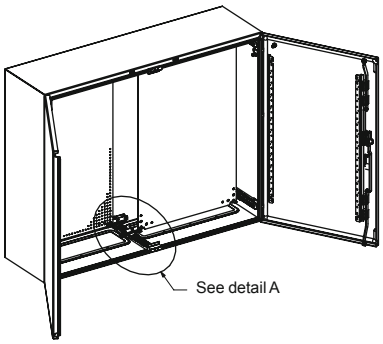


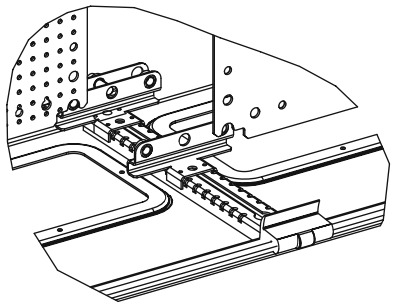
2 - Two offset mounting plates with depthwise adjustment

DB300099-32



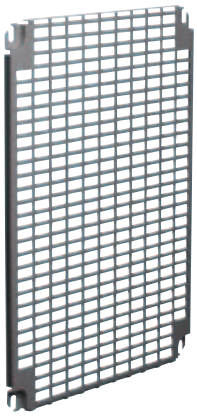
DB300100





Detail A

PB500367-34

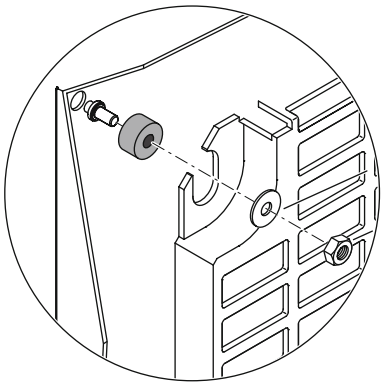


Installation of Telequick mounting plates

Spacers for raising the mounting plate in the enclosures equipped with 6 studs.

Reference
NSYEMR

DB300101



Steel wall-mounting enclosures
Additional information

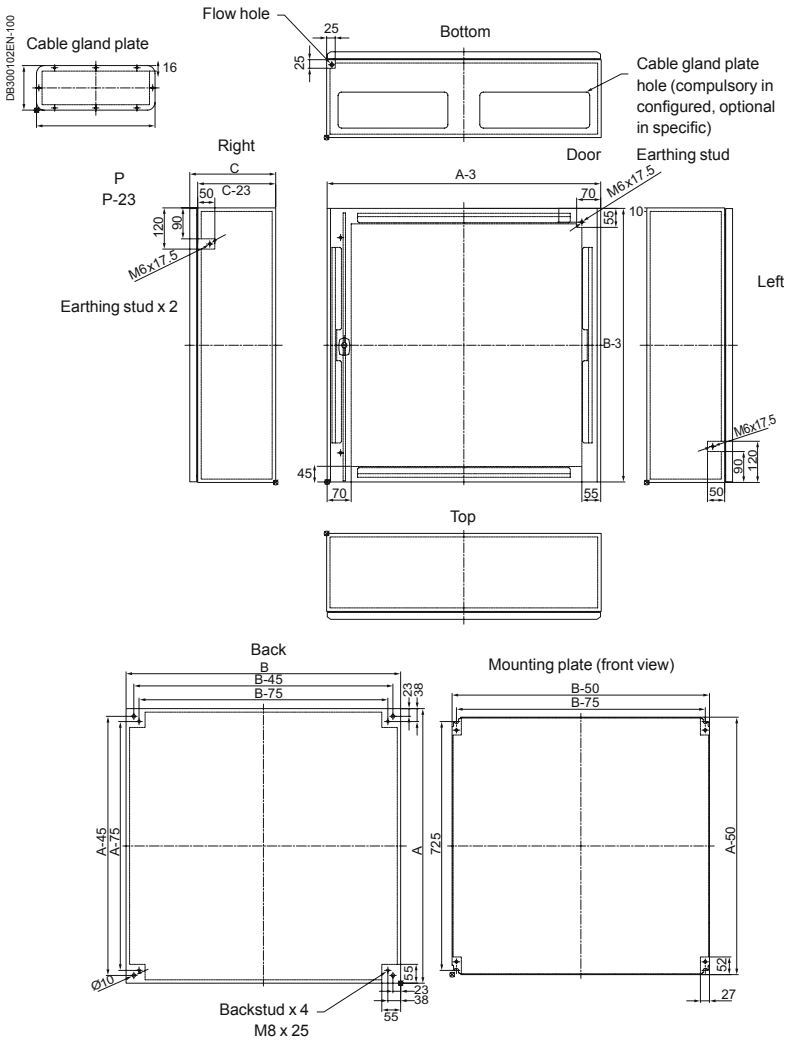


Acceptable loads on the mounting plates, bases and doors

Spacial 3D wall-mounting enclosures					
Acceptable loads (kg)					References
On plain mounting plates	On base	On door (1)	On vertical lug	On horizontal lug	
60	135	50	350	190	**NSYS3D3215** to **NSYS3D5320**
90	135	50	350	190	**NSYS3D5420** to **NSYS3D6425**
135	135	50	350	190	**NSYS3D6620** to **NSYS3D8630**
150	135	50	350	190	**NSYS3D10625** to **NSYS3D10830**
180	135	50	350	190	**NSYS3D101030D** to **NSYS3D141030D**

(1) On a sheet door with a thickness of 20/10e mm: 60 kg of maximum acceptable load (please consult us).

Areas without cut-outs



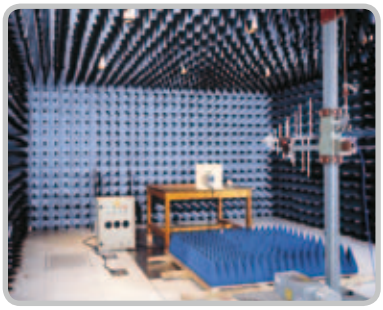
For 800, 1000 and 1200-mm widths, 2 cable-gland plates: see previous page.

Vertical cable guides from 400-mm height.
Horizontal cable guides from 800-mm width.

Download our DXF diagrams from our websites.

Steel wall-mounting enclosures
Protection of the installation

PB500311-51



EMC protection

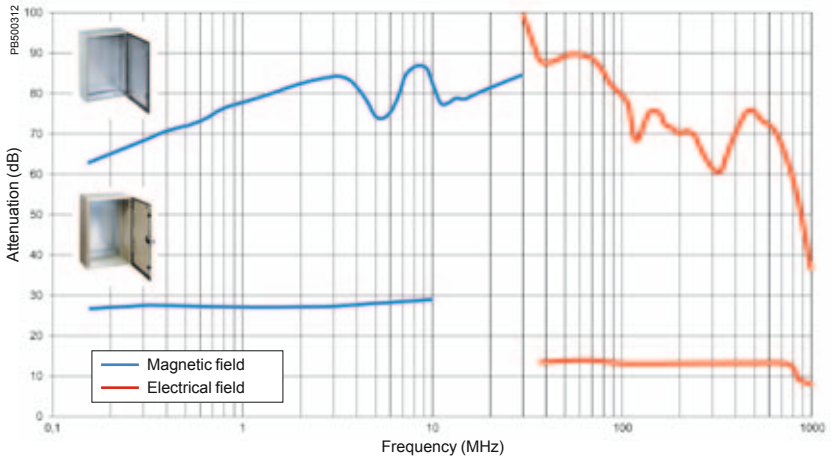
Standard Spacial S3D enclosures are tested against electromagnetic disruptions. Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.

Earth braids to be ordered separately, see page 301.

Another solution and information on electromagnetic compatibility: Spacial S3HF enclosure, page 424.

Attenuation curve of the Spacial S3D compared with the Spacial S3HF

PB500312



PB501004-18

Vibration constraints

Specific construction of the Spacial S3D - Single-piece body (cross-shaped structure). The rear is flat without added parts - this allows it to comply with certain vibration constraints.
The tests were conducted according to the "rules for ships" by "Det Norske Veritas". Enclosures labelled "DNV" have undergone these tests and obtained classification "A". Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.

Frequency: 3 - 13.2 Hz
Amplitude: 1 mm/sec below 22 Hz
Frequency: 3 - 100 Hz
Acceleration: 0.7 g above 30 Hz

PB501005-16

ATEX compliance

The Spacial S3D enclosure (with adaptation) is certified ATEX by the LCIE.
Spacial S3DEX enclosure, page 436 consult us.

Environnemental consideration

Compliance with RoHS standard.

Steel
floor-standing enclosures

Steel floor-standing enclosures
Contents


PB500067-39

Spacial SM-SF **78**
Steel floor-standing enclosures

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Characteristics 80
Dimensions 82
Selection guide 84
Specific accessories overview 90
Common accessories overview 92
Accessories 94


PB500205-22

Associated applicative offers

SFP Prisma application 304
SFHD Floor-standing Heavy Duty enclosures 332
SF 5G, SFP 5G Seismic and nuclear enclosures 346
Electronic application 370
SMHF Electromagnetic compatibility 391
SFHF Electromagnetic compatibility 391
Compartmentalised enclosure for Motor Control Centres 444
Automobile application 478

Steel floor-standing enclosures
Introduction

SM

> Multi-purpose **IP55 compact steel enclosure** for fast and simple solutions.

PB502401-55



PB502402-26



Robust
- Body made as a single piece with welded rear panel.
- Front part forming a rigid frame with welded corners.

PB502403-38



PB502404-30



Practical
- Door rails, which can be height-adjustable and used for fixing cables.
- The adaptation profile installed in the front of the enclosure and the universal 40-mm cross rail (1 row) in the rear provide the same fixing points as the modular enclosure.

PB500469-32



Protection
- IP guaranteed by the rigidity of the enclosure, the expanded-polyurethane sealing gasket of the enclosure and the subsequent welding.
- Double-door enclosures with inner lock on the left door.

PB502405-8



Comfort
- Handle with sturdy design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
- Easily interchangeable insert with one click.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

Steel floor-standing enclosures
Introduction

> Multi-purpose IP55 modular steel enclosure.

SF

Adapts to all your needs.
Assembled delivery for a ready-to-use solution.

PB502412-55



SF kit

Adapts to customer needs.
Delivered as kit, with up to 600 different possible configurations.

PB502428-50



PB502440-50



Volume of packaging in kit supply

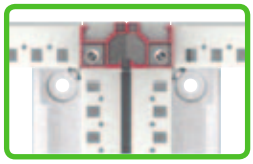
Assembled supply

PB502414-50



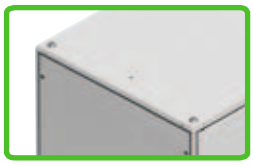
Robust
- Structure formed from a single 15/10e-mm galvanised-steel section, with a high rigidity.
- Vertical uprights screwed together with connections of full steel. Placement and screwing of the 4 vertical uprights at the corners of the top and bottom frames. Fixing by 8 screws, one at each corner of the enclosure.
- Capable of withstanding 1000 kg distributed in its volume.

PB500492-32



Reliable
- The design of the profile creates a double protective barrier against the entry of water and dust when coupling two enclosures.
- The first barrier is the metal connection of the sections, and the second barrier is the EPDM gasket that guarantees the sealing.

PB503272-56



Aesthetics
The built-in panels and handle with new design give the enclosure a new appearance.

PB502416-8



PB502417-48



Comfort
- Handle with robust design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
- Panels with captive screws for easier assembly and dismantling.

PB502426-15



Practical
Suspension of the rear panel using a self-centring piece to facilitate screwing.

PB502418-20



Simple
The new design allows enclosures to be coupled in any direction, adapting to all installation surfaces.

PB502419-12



Accessible
The symmetric design of the profile allows doors to be installed on any side of the enclosure, opening to right or left, providing full accessibility to the enclosure.

PB502424-16



PB502425-40



Fast
- The double system of cut-outs on the structure allows most accessories to be installed using self-tapping TORX T30 M6 screws or nuts.
- Clip-on quick-fixing cross rails, fixed with self-tapping screws.
- Door installation inserting the captive pins of the hinge in their housing in the door.

Steel floor-standing enclosures
Characteristics

SM



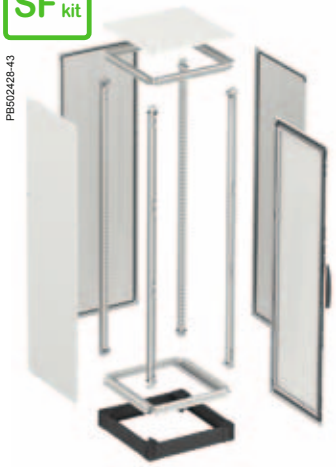
Characteristics	Compact enclosures Spacial SM
	Compact body with a front rigid frame with welded corners and rear panel 4 supports installed in depth to adjust and fix the equipment with a pitch of 25 mm **Basic composition** ■ Front door with a reinforment frame (horizontal rails height-adjustable) ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° openning ■ Welded rear panel ■ 4 locking points system with handle 5 mm double-bar insert ■ Cable-gland plate 1 entry ■ Mounting plate support brackets **Versions / Configurations** ■ Compact enclosure with plain door and mounting plate ■ Compact enclosure with plain door and without mounting plate ■ Compact enclosure with transparent Securit® glass door and without mounting plate **Protection of personnel** Earthing accessories needed to ensure the grounding continuity, see page **300**
Material	Sheet steel
Finish	Textured finish with epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 for plain door and IK08 for transparent door according to IEC 62262
Standards	Compliance with enclosure standard IEC 62208 and the RoHS directive
Certifications	BV, DNV, UL * and cUL *1 door: 1, 2, 3R, 4, 5, 12K and 13 * 2 doors: 1, 12, 12K
Installation	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page **108**
Maximum load	700
Options	■ Plinths, heights 100 mm and 200 mm, see page **102** ■ Lifting eyebolts, reference **NSYSMEB** ■ Internal door, see page **111** ■ Door accessories, see page **113** ■ Other locking options, see page **116** ■ Mounting plates and Telequick system, see page **218**

Steel floor-standing enclosures
Characteristics

SF


PB502412-34

SF kit

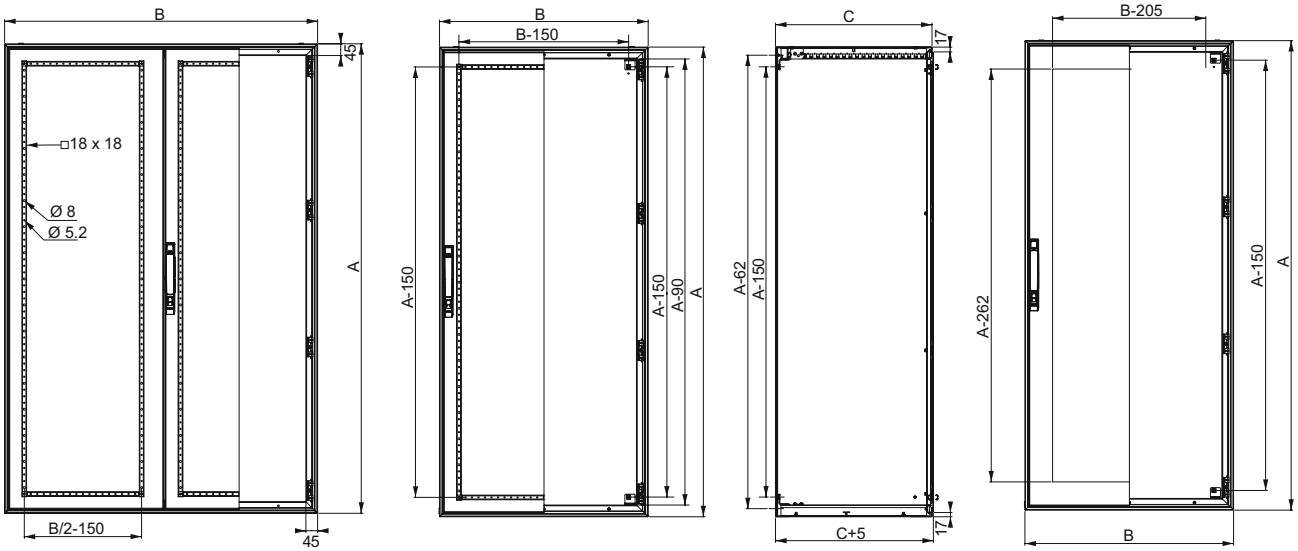

PB502428-43

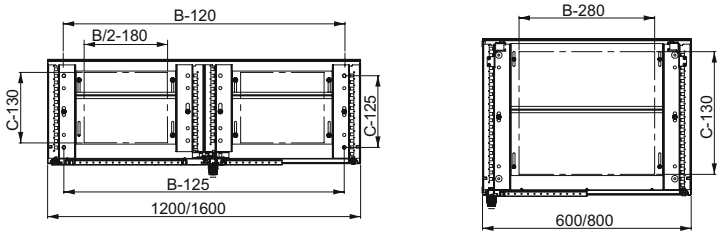
	Suitable enclosures Spacial SF - Assembled supply	Suitable enclosures Spacial SF - Supplied as a kit
	Structure made up of vertical uprights joined with top and bottom frames Panels and doors built into the structure Formed from a single section and perforated structure with a pitch of 25 mm **Basic composition** ■ Front door with a reinforment frame (horizontal rails height-adjustable) and a trim plate ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° openning ■ Rear panel screwed on with captive screws ■ Removable roof ■ 4 locking points system with handle 5 mm double-bar insert ■ Mounting plate support brackets ■ Mounting plate sliding rails ■ 2 quick fixing cross rails **Versions / Configurations** ■ Modular enclosure with plain door and mounting plate ■ Modular enclosure with plain door and without mounting plate ■ Modular enclosure with transparent Securit® glass door and without mounting plate **Protection of personnel** Earthing accessories needed to ensure the grounding continuity, see page **300**	Structure made up of vertical uprights joined with top and bottom frames Panels and doors built into the structure Formed from a single section and perforated structure with a pitch of 25 mm **Basic composition** ■ Front door with a reinforment frame (horizontal rails height-adjustable) ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° openning ■ Rear panel to be screwed on with captive screws ■ Removable roof delivered with top frame ■ 4 locking points system with handle 5 mm double-bar insert ■ Mounting plate support brackets delivered with top & bottom frames kit ■ Mounting plate sliding rails delivered with top & bottom frames kit ■ 2 quick fixing cross rails delivered with top & bottom frames kit **Versions / Configurations** ■ Uprights kit ■ Top and bottom frames kit ■ Rear panel kit ■ Door kit (plain or transparent) **Protection of personnel** Earthing accessories needed to ensure the grounding continuity, see page **300**
	Sheet steel	
	Textured finish with epoxy-polyester powder	
	RAL 7035 grey	
	IP55 according to IEC 60529	IP55 according to IEC 60529
	IK10 for plain door and IK08 for transparent door according to IEC 62262	IK10 for plain door and IK08 for transparent door according to IEC 62262
	Compliance with enclosure standard IEC 62208 and the RoHS directive	
	BV, DNV, UL and cUL* *1 door: 1, 3R, 12, 12K *2 doors: 1, 3R, 12, 12K	BV, DNV, UL and cUL* *1 door: 1, 3R, 12, 12K *2 doors: 1, 3R, 12, 12K
	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page **108**	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page **108**
	1000	1000
	■ Side panels options, see page **94** ■ Enclosure suites options, see page **96** ■ Plinths, heights 100 mm and 200 mm, see page **102** ■ Cable-gland plates, see page **104** ■ Lifting systems, see page **106** ■ Roof options, see page **108** ■ Door accessories, see page **113** ■ Other locking options, see page **116** ■ Mounting plates and Telequick system, see page **218**	■ Door trim plates, see page **113** ■ Side panels options, see page **94** ■ Enclosure suites options, see page **96** ■ Plinths, heights 100 mm and 200 mm, see page **102** ■ Cable-gland plates, see page **104** ■ Lifting systems, see page **106** ■ Roof options, see page **108** ■ Other locking options, see page **116** ■ Mounting plates and Telequick system, see page **218**

Steel floor-standing enclosures
Dimensions

SM

DB3001180EN-176



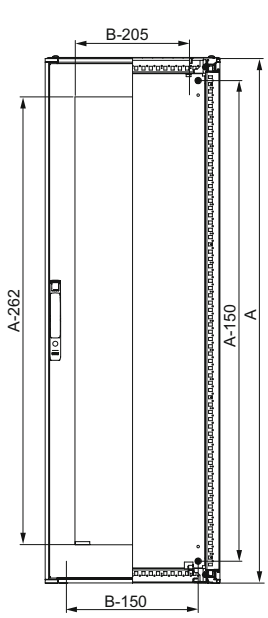


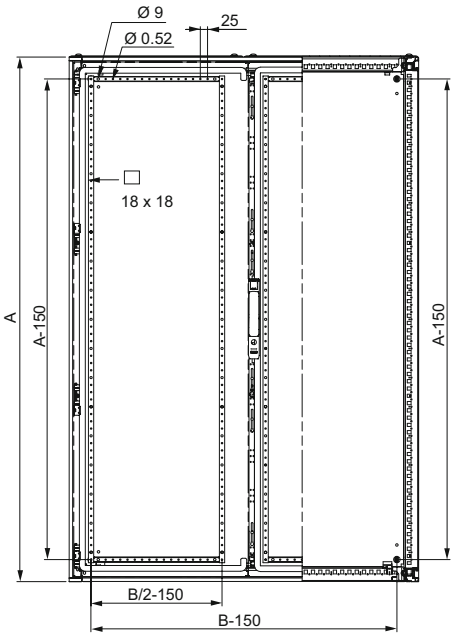
Models with a width of 1200 mm
without top/bottom adjustment rails

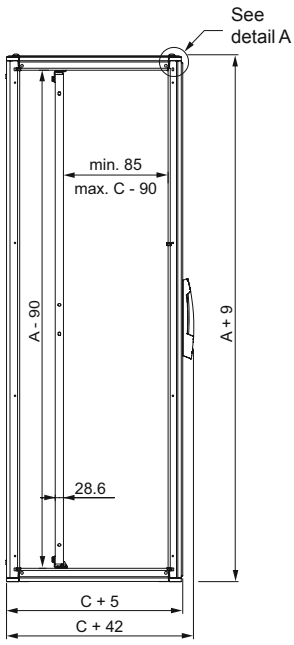
Steel floor-standing enclosures
Dimensions

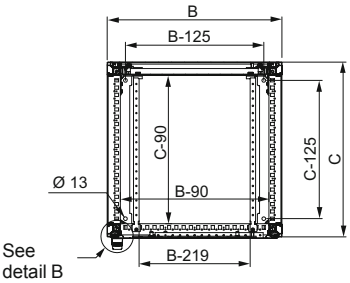
SF SF kit

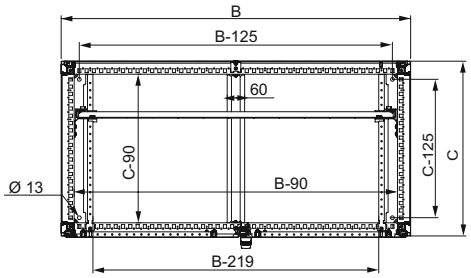
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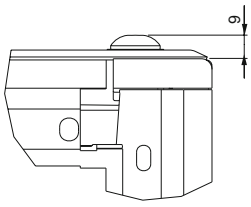




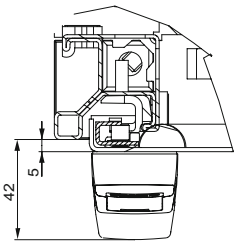








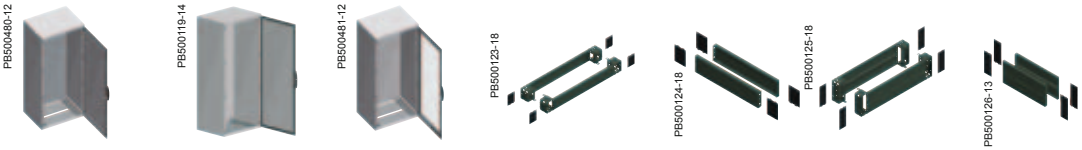
Detail A



Detail B

Steel floor-standing enclosures
Selection guide

SM

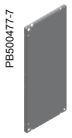


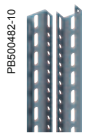
Characteristics				Door			Plinth			
Dimensions (mm)			No. of doors	Plain		Transparent	Height 100 mm		Height 200 mm	
H (A)	W (B)	D (C)		With mounting plate	Without mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.
1200	800	300	1	NSYSM12830P	NSYSM12830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
	1000	300	2	NSYSM1210302DP	NSYSM1210302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
	1200	400	2	NSYSM1212402DP	NSYSM1212402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1400	600	300	1	NSYSM14630P	NSYSM14630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM14640P	NSYSM14640	-	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
	800	300	1	NSYSM14830P	NSYSM14830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM14840P	NSYSM14840	NSYSM14840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
	1000	400	2	NSYSM1410402DP	NSYSM1410402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
	1200	400	2	NSYSM1412402DP	NSYSM1412402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1600	600	300	1	NSYSM16630P	NSYSM16630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM16640P	NSYSM16640	NSYSM16640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
	800	300	1	NSYSM16830P	NSYSM16830	NSYSM16830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM16840P	NSYSM16840	NSYSM16840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
	1000	300	2	NSYSM1610302DP	NSYSM1610302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200
		400	2	NSYSM1610402DP	NSYSM1610402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
	1200	300	2	NSYSM1612302DP	NSYSM1612302D	-	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200
		400	2	NSYSM1612402DP	NSYSM1612402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1800	600	300	1	NSYSM18630P	NSYSM18630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM18640P	NSYSM18640	NSYSM18640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
		500	1	NSYSM18650P	NSYSM18650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM18830P	NSYSM18830	NSYSM18830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM18840P	NSYSM18840	NSYSM18840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
		500	1	NSYSM18850P	NSYSM18850	NSYSM18850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
		600	1	NSYSM18860P	NSYSM18860	-	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
	1000	400	1	NSYSM181040P	NSYSM181040	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		400	2	NSYSM1810402DP	NSYSM1810402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		500	2	NSYSM1810502DP	NSYSM1810502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
	1200	400	2	NSYSM1812402DP	NSYSM1812402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
		500	2	NSYSM1812502DP	NSYSM1812502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
	1600	400	2	NSYSM1816402DP	NSYSM1816402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
		500	2	NSYSM1816502DP	NSYSM1816502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200
2000	600	300	1	NSYSM20630P	NSYSM20630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
		400	1	NSYSM20640P	NSYSM20640	NSYSM20640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
		500	1	NSYSM20650P	NSYSM20650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM20830P	NSYSM20830	NSYSM20830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
		400	1	NSYSM20840P	NSYSM20840	NSYSM20840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200
		500	1	NSYSM20850P	NSYSM20850	NSYSM20850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200
		600	1	NSYSM20860P	NSYSM20860	NSYSM20860T	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
	1000	400	2	NSYSM2010402DP	NSYSM2010402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		500	2	NSYSM2010502DP	NSYSM2010502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200
	1200	400	2	NSYSM2012402DP	NSYSM2012402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
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		600	2	NSYSM2012602DP	NSYSM2012602D	-	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200
	1600	400	2	NSYSM2016402DP	NSYSM2016402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
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		600	2	NSYSM2016602DP	NSYSM2016602D	-	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200

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Selection guide

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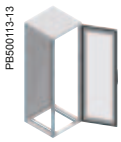
Characteristics				Inner door	Mounting plate	Vertical uprights		Off-centre 19" swing rack	Centred 19" swing rack
Dimensions (mm)			No. of doors			Standard	Technical		
H (A)	W (B)	D (C)							
1200	800	300	1	-	NSYMP128	-	NSYTVR12	-	-
	1000	300	2	-	NSYMP1210	-	NSYTVR12	-	-
	1200	400	2	-	NSYMP1212	-	NSYTVR12	-	-
1400	600	300	1	-	NSYMP146	-	NSYTVR14	-	-
		400	1	-	NSYMP146	-	NSYTVR14	-	-
	800	300	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
		400	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
	1000	400	2	-	NSYMP1410	-	NSYTVR14	-	-
	1200	400	2	-	NSYMP1412	-	NSYTVR14	-	-
1600	600	300	1	NSYID166	NSYMP166	-	NSYTVR16	-	-
		400	1	NSYID166	NSYMP166	-	NSYTVR16	-	-
	800	300	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
		400	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
	1000	300	2	-	NSYMP1610	-	NSYTVR16	-	-
		400	2	-	NSYMP1610	-	NSYTVR16	-	-
	1200	300	2	-	NSYMP1612	-	NSYTVR16	-	-
		400	2	-	NSYMP1612	-	NSYTVR16	-	-
1800	600	300	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		400	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		500	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
	800	300	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		400	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		500	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
		600	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
	1000	400	1	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
		400	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
		500	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
	1200	400	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
		500	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
	1600	400	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
		500	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
2000	600	300	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		400	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
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	800	300	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		400	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		500	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
		600	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
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		500	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
		600	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
	1600	400	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
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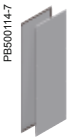
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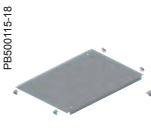
SF

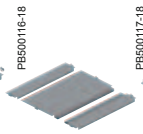


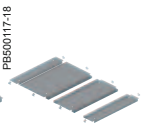








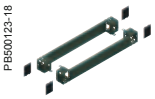


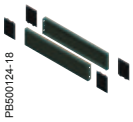


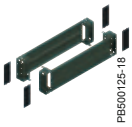
Nominal dimensions (mm)			No. of doors	Door			Side panels	Cable-entry plate		
				Plain		Transparent				
Height (A)	Width (B)	Depth (C)		With mounting plate	Without mounting plate	Without mounting plate		Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640P	NSYSF12640	-	NSY2SP124	NSYEC64	NSYEC641	-
		600	1	NSYSF12660P	NSYSF12660	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
	800	400	1	NSYSF12840P	NSYSF12840	-	NSY2SP124	NSYEC84	NSYEC841	-
		600	1	NSYSF12860P	NSYSF12860	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1400	600	400	1	NSYSF14640P	NSYSF14640	-	NSY2SP144	NSYEC64	NSYEC641	-
	800	400	1	NSYSF14840P	NSYSF14840	-	NSY2SP144	NSYEC84	NSYEC841	-
1600	600	600	1	NSYSF16660P	NSYSF16660	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF16680P	NSYSF16680	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
	800	600	1	NSYSF16860P	NSYSF16860	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF16880P	NSYSF16880	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1800	400	400	1	-	NSYSF18440	-	NSY2SP184	NSYEC44	NSYEC441	-
		500	1	-	NSYSF18450	-	NSY2SP185	NSYEC45	NSYEC451	-
		600	1	-	NSYSF18460	-	NSY2SP186	-	NSYEC461	-
	600	400	1	NSYSF18640P	NSYSF18640	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
		500	1	NSYSF18650P	NSYSF18650	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
		600	1	NSYSF18660P	NSYSF18660	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
		800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
	800	400	1	NSYSF18840P	NSYSF18840	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
		500	1	NSYSF18850P	NSYSF18850	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
		600	1	NSYSF18860P	NSYSF18860	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
		600	2	NSYSF188602DP	NSYSF188602D	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
	1000	400	1	NSYSF181040P	NSYSF181040	-	NSY2SP184	NSYEC104	NSYEC1041	-
		400	2	NSYSF1810402DP	NSYSF1810402D	-	NSY2SP184	NSYEC104	NSYEC1041	-
		500	1	NSYSF181050P	NSYSF181050	-	NSY2SP185	NSYEC105	NSYEC1051	-
		600	1	NSYSF181060P	NSYSF181060	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
		600	2	NSYSF1810602DP	NSYSF1810602D	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
	1200	400	2	NSYSF1812402DP	NSYSF1812402D	-	NSY2SP184	NSYEC124	NSYEC1241	-
		500	2	NSYSF1812502DP	NSYSF1812502D	-	NSY2SP185	NSYEC125	NSYEC1251	-
		600	2	NSYSF1812602DP	NSYSF1812602D	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
2000	300	500	1	-	NSYSF20350	-	NSY2SP205	NSYEC35	NSYEC351	-
		600	1	-	NSYSF20360	-	NSY2SP206	NSYEC36	NSYEC361	-
		800	1	-	NSYSF20380	-	NSY2SP208	-	NSYEC381	-
	400	400	1	-	NSYSF20440	-	NSY2SP204	NSYEC44	NSYEC441	-
		500	1	-	NSYSF20450	-	NSY2SP205	NSYEC45	NSYEC451	-
		600	1	-	NSYSF20460	-	NSY2SP206	NSYEC64	NSYEC461	-
		800	1	-	NSYSF20480	-	NSY2SP208	NSYEC84	NSYEC481	-
	600	400	1	NSYSF20640P	NSYSF20640	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
		500	1	NSYSF20650P	NSYSF20650	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
		600	1	NSYSF20660P	NSYSF20660	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF20680P	NSYSF20680	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
	800	400	1	NSYSF20840P	NSYSF20840	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
		500	1	NSYSF20850P	NSYSF20850	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
		600	1	NSYSF20860P	NSYSF20860	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		600	2	NSYSF208602DP	NSYSF208602D	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF20880P	NSYSF20880	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
	1000	400	1	NSYSF201040P	NSYSF201040	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
		400	2	NSYSF2010402DP	NSYSF2010402D	-	NSY2SP204	NSYEC104	NSYEC1041	-
		500	1	NSYSF201050P	NSYSF201050	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
		500	2	NSYSF2010502DP	NSYSF2010502D	-	NSY2SP205	NSYEC105	NSYEC1051	-
		600	1	NSYSF201060P	NSYSF201060	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		600	2	NSYSF2010602DP	NSYSF2010602D	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		800	1	NSYSF201080P	NSYSF201080	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
	1200	400	2	NSYSF2012402DP	NSYSF2012402D	-	NSY2SP204	NSYEC124	NSYEC1241	-
		500	2	NSYSF2012502DP	NSYSF2012502D	-	NSY2SP205	NSYEC125	NSYEC1251	-
		600	2	NSYSF2012602DP	NSYSF2012602D	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262
		800	2	NSYSF2012802DP	NSYSF2012802D	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282
	1600	400	2	NSYSF2016402DP	NSYSF2016402D	-	NSY2SP204	NSYEC164	NSYEC1641	-
		500	2	NSYSF2016502DP	NSYSF2016502D	-	NSY2SP205	NSYEC165	NSYEC1651	-
		600	2	NSYSF2016602DP	NSYSF2016602D	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	-	NSYSF22460	-	NSY2SP226	-	NSYEC461	-
	600	600	1	NSYSF22660P	NSYSF22660	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
		800	1	NSYSF22680P	NSYSF22680	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
	800	600	1	NSYSF22860P	NSYSF22860	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
		800	1	NSYSF22880P	NSYSF22880	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
	1000	600	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
	1200	600	2	NSYSF2212602DP	NSYSF2212602D	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
		800	2	NSYSF2212802DP	NSYSF2212802D	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

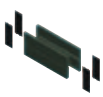
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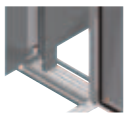

PB500123-18


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PB500126-13


PB500477-7


PB500512-16


PB500482-10

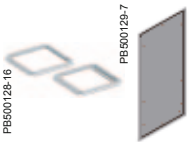

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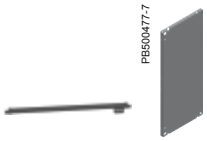
Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Vertical uprights	
			Height 100 mm		Height 200 mm				Standard	Technical
Height (A)	Width (B)	Depth (C)	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.				
1200	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
1400	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
1600	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16
1800	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR18	NSYTVR18
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR18	NSYTVR18
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR18	NSYTVR18
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
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2000	300	500	NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR20	NSYTVR20
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
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		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
	1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF10100	NSYSPS8100	NSYSPF10200	NSYSPS8200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
	1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
	1600	400	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
		500	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
2200	400	600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR22	NSYTVR22
	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
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		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
	1000	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2210	NSYSIMP22	NSYVR22	NSYTVR22
	1200	600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22

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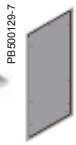
Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
		800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126
	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
		800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
		800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
		600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148
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1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
		800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166
	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
		500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
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		800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYTRIM4SF	-
		500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYTRIM4SF	-
		600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYTRIM4SF	-
		800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYTRIM4SF	-
	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
		800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186
	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
		800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
		800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
		500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
		800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
		800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812
		800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812

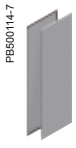
(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

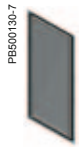
Steel floor-standing enclosures
Selection guide

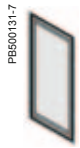
SF kit

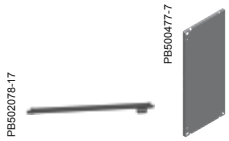












Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	NSYTRIM3SF	-
		600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	NSYTRIM3SF	-
		800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	NSYTRIM3SF	-
	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYTRIM4SF	-
		500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYTRIM4SF	-
		600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYTRIM4SF	-
		800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYTRIM4SF	-
	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
		800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
		500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
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		800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012
	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
		500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
		600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016
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		500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	NSYTRIM4SF	-
		600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	NSYTRIM4SF	-
		800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	NSYTRIM4SF	-
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		500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
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		600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
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		500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

Steel floor-standing enclosures

Specific accessories overview

PB502427-57



Composition accessories

Panels

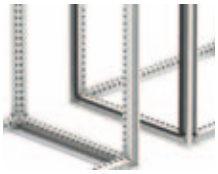
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Coupling accessories

PB502430-29



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Roofs

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Wall-mounting

PB500607-29



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Floor

PB500330-33



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Cable entry

PB502432-30



Page 104

Lifting systems

DB300769-15



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Doors

PB502433-18



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Locking systems

PB502429-6



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Steel floor-standing enclosures

Specific accessories overview

PB502434-30



Installation accessories

Mounting acc.

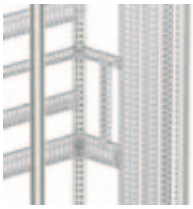
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Telequick system

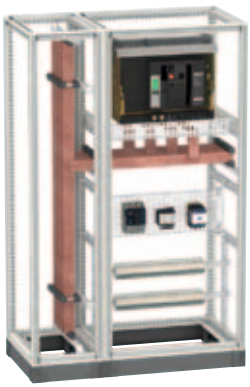
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Power distribution

DB404943-35



Busbar supports

DB404943-60



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Steel floor-standing enclosures

Common accessories overview

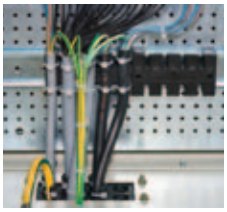
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Cable management

Cable holding

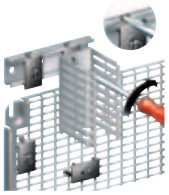
PB500966-40



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Cable ducting

PB500958-22



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Thermal management

Heaters

PB502050-29



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Ventilation

PB501044-26



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Cooling units

PB502814-15



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Others

Door accessories

PB502559-25



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Lighting

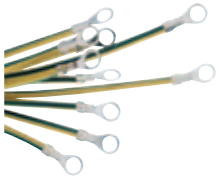
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Earthing

PB500217-29



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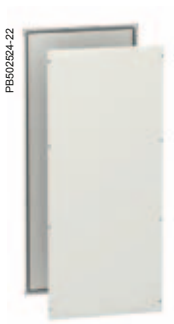
Steel floor-standing enclosures
Accessories

Panels

SF



SF



SF



Characteristics		Side door	External fixing	Internal fixing
		Door for the side of the enclosure, replaces the side panel. Installation directly on the structure of the enclosure, opening 120°. Lock with handle and 5-mm double-bar insert. 4 locking points. Reinforcement frame, cut-out with a pitch of 25 mm. Opening to right or left.	Set of 2 side panels fixed from the outside of the enclosure.	Set of 2 side panels fixed from the enclosure, preventing access by unauthorized persons. Very useful in public spaces.
Material		Steel	Steel	Steel
Finish		Painted with epoxy-polyester resin	Painted wih epoxy-polyester resin	Painted wih epoxy-polyester resin
Colour		RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
Supply		One side door, four hinges, four catches and handle lock	2 side panels and fixing elements	2 side panels, with sealing gasket and bag of accessories
Height (mm)	**Depth (mm)**	**References**		
1200	400	-	**NSY2SP124**	-
	500	-	**NSY2SP125**	**NSY2SPI126**
	600	**NSYSFD126**	**NSY2SP126**	-
	800	**NSYSFD128**	**NSY2SP128**	-
1400	400	-	**NSY2SP144**	-
	500	-	**NSY2SP145**	-
	600	**NSYSFD146**	**NSY2SP146**	-
	800	**NSYSFD148**	**NSY2SP148**	-
1600	400	-	**NSY2SP164**	-
	500	-	**NSY2SP165**	-
	600	**NSYSFD166**	**NSY2SP166**	-
	800	**NSYSFD168**	**NSY2SP168**	-
1800	400	**NSYSFD184**	**NSY2SP184**	-
	500	**NSYSFD185**	**NSY2SP185**	**NSY2SPI185**
	600	**NSYSFD186**	**NSY2SP186**	**NSY2SPI186**
	800	**NSYSFD188**	**NSY2SP188**	**NSY2SPI188**
	1000	-	-	-
2000	400	**NSYSFD204**	**NSY2SP204**	**NSY2SPI204**
	500	**NSYSFD205**	**NSY2SP205**	**NSY2SPI205**
	600	**NSYSFD206**	**NSY2SP206**	**NSY2SPI206**
	800	**NSYSFD208**	**NSY2SP208**	**NSY2SPI208**
	1000	-	-	-
	1200	-	-	-
2200	400	**NSYSFD224**	**NSY2SP224**	-
	500	**NSYSFD225**	**NSY2SP225**	-
	600	**NSYSFD226**	**NSY2SP226**	**NSY2SPI226**
	800	**NSYSFD228**	**NSY2SP228**	**NSY2SPI228**
	1000	-	-	-

Steel floor-standing enclosures
Accessories

Panels

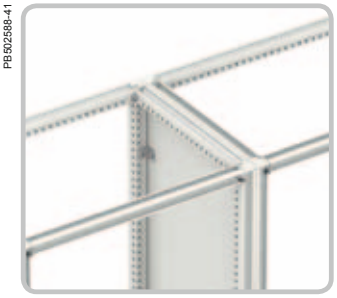
SF



SF



SF



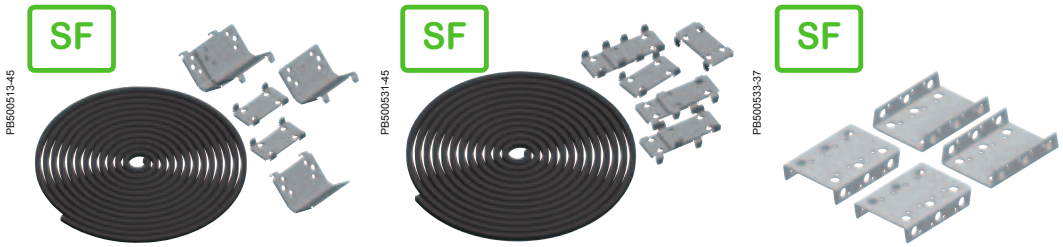
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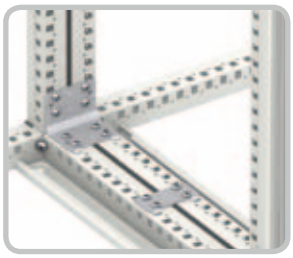
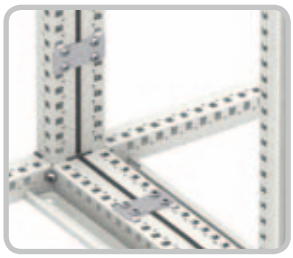
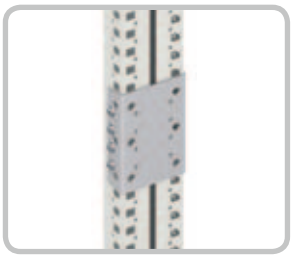


	Quick-fixing side panels	Internal fixing rear panel	Partition panel	Trim cap
	Set of 2 side panels fixed to the outside of the enclosure by clipping locks. No sealing gasket.	Rear panel fixed from the inside of the enclosure, preventing unauthorized personnel from accessing and removing it. Normally used in public spaces.	Partition panel for direct fixing to the structure, guarantees a water/dustproof protection of IP10 between enclosure suites.	Trim cap for external fixing panels, both sides and rear.
	Steel	Steel	Galvanised steel	Polyamide 6
	Painted wih epoxy-polyester resin	Painted wih epoxy-polyester resin	-	-
	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
	2 side panels and fixing elements	1 rear panel and fixing elements	1 partition panel, sealing gasket and fixing elements	50 units
				Reference
	-	-	-	**NSYCSP**
	-	-	-	
	NSY2SPQ126	**NSYBPI126**	-	
	NSY2SPQ128	-	-	
	-	-	-	
	-	-	-	
	NSY2SPQ146	-	-	
	NSY2SPQ148	-	-	
	-	-	-	
	-	-	-	
	NSY2SPQ166	**NSYBPI166**	**NSYPPS166**	
	NSY2SPQ168	**NSYBPI168**	**NSYPPS168**	
	-	-	**NSYPPS184**	
	-	-	**NSYPPS185**	
	NSY2SPQ186	**NSYBPI186**	**NSYPPS186**	
	NSY2SPQ188	**NSYBPI188**	-	
	-	**NSYBPI1810**	-	
	-	**NSYBPI204**	**NSYPPS204**	
	-	-	**NSYPPS205**	
	NSY2SPQ206	**NSYBPI206**	**NSYPPS206**	
	NSY2SPQ208	**NSYBPI208**	**NSYPPS208**	
	-	**NSYBPI2010**	-	
	-	**NSYBPI2012**	-	
	-	-	-	
	-	-	-	
	NSY2SPQ226	**NSYBPI226**	**NSYPPS226**	
	NSY2SPQ228	**NSYBPI228**	**NSYPPS228**	
	-	**NSYBPI2210**	-	

Steel floor-standing enclosures
Accessories

Coupling accessories

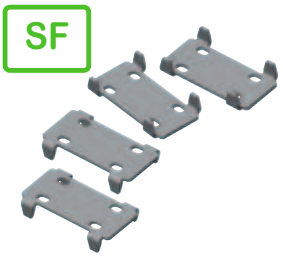


Characteristics	Standard coupling Kit	Swing 19" rack coupling Kit	Reinforced coupling
			
	Used for joining enclosures side-to-side or depthwide. Fixing from the inside of the enclosure.	Used for joining enclosures equipped with swing 19" rack, side-to-side or depthwise. Fixing from the inside of the enclosures.	It is used together with the coupling kit to reinforce the connection between 2 enclosures when they carry heavy loads. Fixing from the inside of the enclosures.
Material	■ Flat connectors and brackets: zinc-coated steel ■ Sealing gasket: EPDM	■ Flat connectors: zinc-coated steel ■ Sealing gasket: EPDM	Zinc-coated steel
Supply	4 brackets, 2 flat connectors, sealing gasket and fixing elements	8 flat connectors, sealing gasket and fixing elements	4 reinforced connectors and fixing elements
References			
	NSYSFBK	**NSYSFBK19**	**NSYSFBKR**

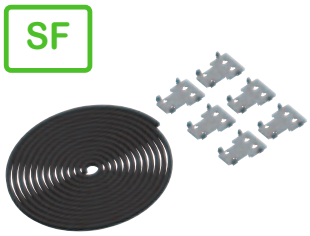
Steel floor-standing enclosures
Accessories

Coupling accessories

PB500535-36



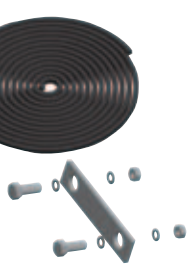
PB500536-45

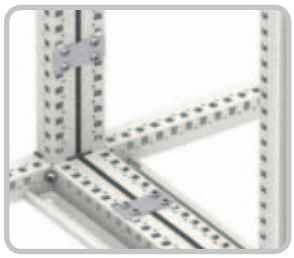
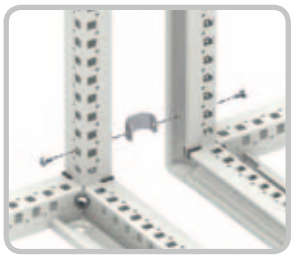
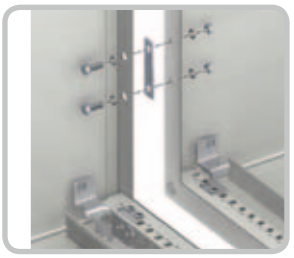


PB500538-78

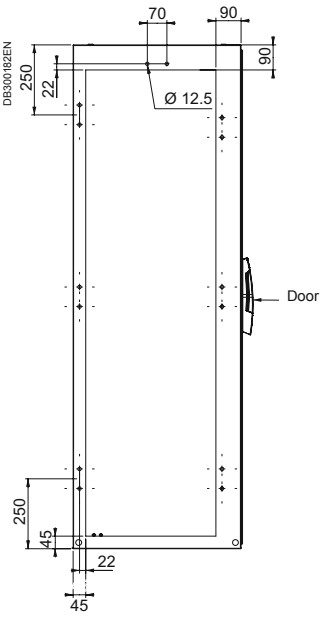


PB500541-38



	Quick coupling	Kit for coupling the previous version with Spacial SF	External coupling	Enclosure coupling Kit for Spacial SM
	PB502553-53 	PB502568-40 	PB502555-49 	PB502556-35 
	Used for quickly joining 2 enclosures. Fixing from the inside of the enclosures.	It is used for coupling an enclosure of a previous version (OLN or Spacial 6000) side-to-side or depthwise with a Spacial SF enclosure. Fixing from the inside of the enclosures.	■ Allows two enclosures to be joined by their structure. ■ To be used with the standard coupling kit in those cases where front and back uprights are not accesibles. ■ The mounting plate or vertical uprights fixed to the back of the enclosure prevent the assembly and dismantling of the kit. ■ It can be combined with the reinforced or the quick coupling kit.	■ Used for joining enclosures side-to-side. ■ Enclosures fixed from the inside.
	Zinc-coated steel	■ Flat connectors and spacers: zinc-coated steel ■ Sealing gasket: EPDM	■ External connectors: zinc-coated steel ■ Sealing gasket: EPDM	9 x 11 sealing gasket: EPDM
	4 flat links and fixing elements	6 flat connectors, sealing gasket and fixing elements	4 external connectors and fixing elements	1 sealing gasket and fixing elements
	NSYSFBKF	**NSYSFBKSH**	**NSYSFBKE**	**NSYSMBK**

DB300182EN



Steel floor-standing enclosures
Accessories

Floor

Plinth in kit form

Front and rear kit	Side panels	Complete plinth



Plinth height 100 mm



Plinth height 200 mm

The complete plinth consists of two elements, one is the front and rear kit, determined by the length of the enclosure, and the other consists of the side panels, which determine the depth of the enclosure.
The number of side panels required is decided according to the desired plinth combination.

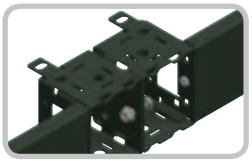
- Robust design.
- The modular plinth system makes it possible to reduce the number of references in stock.

Steel floor-standing enclosures
Accessories

Floor

Possibility of joining plinths

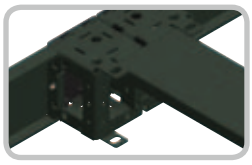
PB500545-35



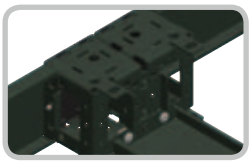
1 - The surfaces between corners are always in contact.
They are joined by an M8 screw and nut, not included in the standard supply.

- Longitudinally free space for passing cables.
- Greater rigidity of the resultant assembly unit.

PB500546-35



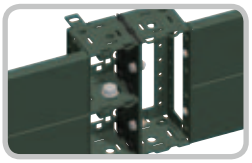
PB500547-35



2 - By side panels, the M6 screws and caged nuts, not included in the standard supply, reference **NSYSPM6** and reference **NSYCN9M625**, which can be mounted above and/or below.

- Improves rigidity in the depthwise direction during transport.

PB500548-35

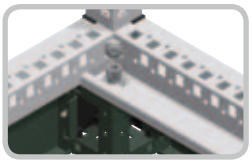


3 - Vertical plinth assembly by means of M12 screws and nuts, not included in the standard supply.

- The two heights of corners can be combined.

Possibility of fixing the enclosure to the plinth

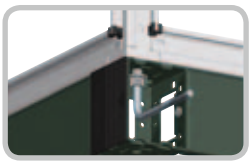
PB500549-38



1 - Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

- Fixing convenience and speed.

PB500550-36



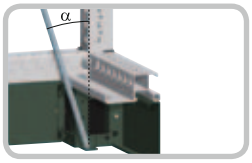
2 - Fixing from the outside of the enclosure with a M12 screw, screwing directly onto the vertical upright.

- Maximum rigidity of the enclosure-plinth assembly.

Steel floor-standing enclosures
Accessories

Floor

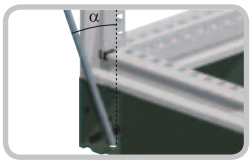
Possibility of fixing the plinth to the floor



PB500551-22

1 - Fixing from the inside of the enclosure.

The machining angle varies according to the plinth model:
Plinth height 100 mm α = 18°.
Plinth height 200 mm α = 9°.



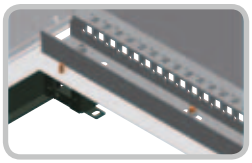
PB500552-27

2 - Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

The machining angle varies according to the plinth model:
Plinth height 100 mm α = 22°.
Plinth height 200 mm α = 11°.

3 - It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

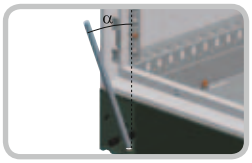
The corners of the ends can be rotated in the event of needing to remove the side panels of the plinth and/or to obtain access to the fixing outside the floor, when the set is installed against the wall.


PB500553-33

Fixing the enclosure to the plinth

Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

⊕ Fixing convenience and speed.

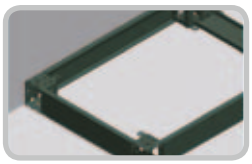


PB500554-24

Fixing the enclosure to the ground

Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

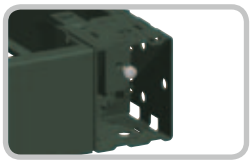
The machining angle varies according to the plinth model:
Plinth height 100 mm α = 22°.
Plinth height 200 mm α = 11°.


PB500555-33

Enclosure against a wall

Thanks to the design of the corners, when the enclosure is installed against the wall, the following is possible:
- to remove the side panels (turning back corners),
- to access the external fixing to the floor.

It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.


PB500556-23

Assembly of the plinth panels

The panels are fixed with an M6 screw to the corner, included in the standard supply of the side panels.
The front and rear panels are delivered mounted on the corners.

Steel floor-standing enclosures
Accessories

Floor

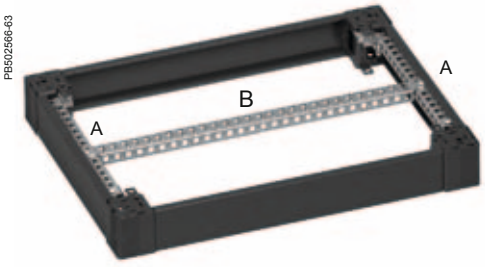


Fixing options			
Characteristics	**Screw M6**	**Caged nuts**	**Levelling the plinth**
	Torx T30 M6 x 10 screws.	M6 caged nuts.	The plinth allows levelling by means of an M12 screw.
Supply	50	100	-
References			
	NSYSPM6	**NSYCN9M625**	**NSYSPLK**

Examples of solutions



Plinth cross rail fixed in position B
- They are fixed to the plinth cross rails, both the universal and the quick-fixing types.
- Their depth is adjustable with a pitch of 25 mm.
- See universal and quick-fixing cross rail references, page **230**.



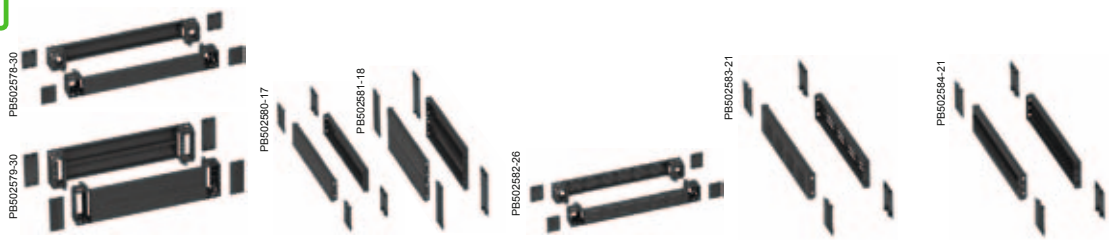
Plinth cross rail fixes in position B. It requires 2 cross rails in position A to be fixed.



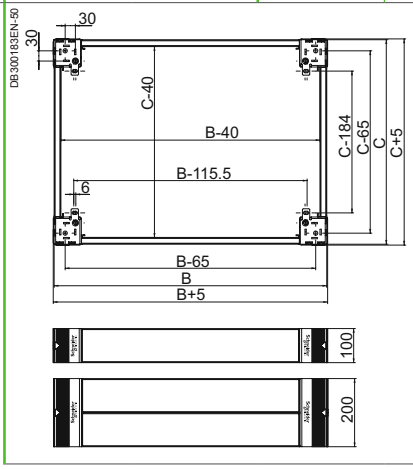
Steel floor-standing enclosures
Accessories

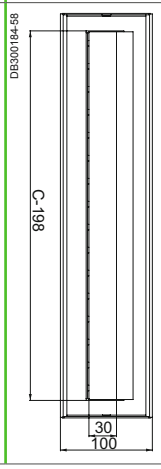
SM SF

Floor



Characteristics	Front plinth	Plinth side panels	Ventilated front plinth	Ventilated side panels	Panels with brush
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.	The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.	They are fixed to the corner of the plinth by fixing screws.	They allow the entry and fixing of cables inside the enclosure, through the plinth.
Material	Folded sheet steel, corner with a thickness of 25/10e mm	Folded sheet steel	Folded sheet steel, corner with a thickness of 25/10e mm	Folded sheet steel	Folded sheet steel
Finish	Painted with epoxy-polyester resin	Painted with epoxy-polyester resin	Painted with epoxy-polyester resin	Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
Colour	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP30	IP30	IP20	IP20	IP20
Mechanical protection rating	IK10	IK10	IK10	IK10	IK10
Supply	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements	■ Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements	■ Height 100 mm: 2 panels with brushes, 4 corner covers and fixing elements
References					
Width (mm) (B)	**100 mm** / **200 mm**			**100 mm**	
300	**NSYSPF3100** / **NSYSPF3200**	-		-	-	-
400	**NSYSPF4100** / **NSYSPF4200**	-		-	-	-
600	**NSYSPF6100** / **NSYSPF6200**	-		**NSYSPFV6100**	-	-
800	**NSYSPF8100** / **NSYSPF8200**	-		**NSYSPFV8100**	-	-
1000	**NSYSPF10100** / **NSYSPF10200**	-		-	-	-
1200	**NSYSPF12100** / **NSYSPF12200**	-		-	-	-
1600	**NSYSPF16100** / **NSYSPF16200**	-		-	-	-
1800	- / -	-		-	-	-
2400	- / -	-		-	-	-
Depth (mm) (C)		**100 mm**	**200 mm**		**100 mm**	**100 mm**
300	-	**NSYSPS3100**	**NSYSPS3200**	-	-	-
400	-	**NSYSPS4100**	**NSYSPS4200**	-	-	-
500	-	**NSYSPS5100**	**NSYSPS5200**	-	-	-
600	-	**NSYSPS6100**	**NSYSPS6200**	-	**NSYSPV6100**	**NSYSPB6100**
800	-	**NSYSPS8100**	**NSYSPS8200**	-	**NSYSPV8100**	**NSYSPB8100**





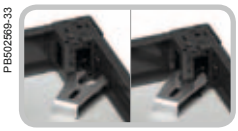
[!] **Stainless-steel plinths compatible with steel offer.**

Steel floor-standing enclosures
Accessories

Floor


PB502600-32
PB502601-32

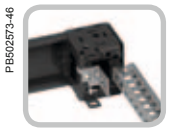

PB502575-16


PB502569-33


PB502576-12

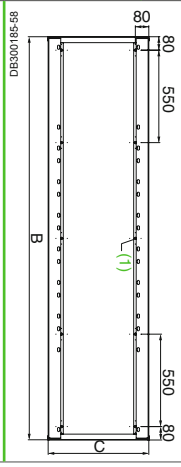

PB502570-33
PB502572-38

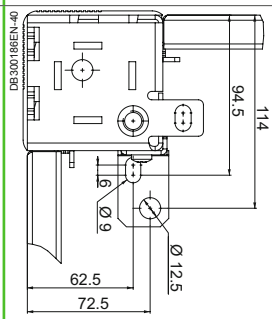

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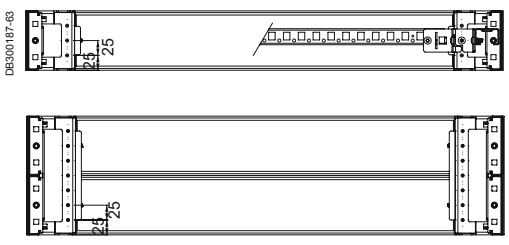

PB502573-46


PB502574-61

	Plinth for sets		Fixing to the floor	Fixing to the floor by fixing points of previous version (OLN/CMO or Spacial 6000 and 18500)	Plinth cross-rail support	Plinth cross rails	
	Designed for the assembly of sets of 2 to 4 Spacial SF enclosures, joined on a single plinth.		Piece for fixing the plinth to the floor in the event of not being able to use the drill holes made in the plinth.	Pieces that reproduce the floor-fixing points of the previous plinth.	Support for fixing a cross rail inside the plinth.	They are fixed across the width and/or depth between the corners of the plinth. The plinth cross-rail supports are required for its assembly.	
	Folded sheet steel		Steel	Steel	Steel	Steel	
	Painted with epoxy-polyester resin		Zinc-coated	Zinc-coated	Zinc-coated	Zinc-coated	
	RAL 7022 grey		-	-	-	-	
	IP20		-	-	-	-	
	IK10		-	-	-	-	
	■ Front plinth: 2 U-shaped profiles and fixing elements ■ Plinth side panel: Height 100 mm: 2 plinths side panels and fixing elements		4 pieces, fixing elements not supplied	4 pieces, fixing elements not supplied	12 pieces and fixing elements	2 cross rails and fixing elements	
	100 mm	**200 mm**			**Reference by unit** **Order by multiples of 12** (12, 24, 36…)	**Cross rails** **1 row (40)**	**3 rows (90)**
	-	-	**NSYSGF**	**NSYOL6GF**	**NSYSPCR**	-	-
	-	-				**NSYSUCR4030**	**NSYSUCR9030**
	-	-				**NSYSUCR4050**	**NSYSUCR9050**
	-	-				**NSYSUCR4070**	**NSYSUCR9070**
	-	-				**NSYSUCR4090**	**NSYSUCR9090**
	-	-				**NSYSUCR40110**	**NSYSUCR90110**
	NSYSPFC16100	**NSYSPFC16200**				**NSYSUCR40150**	**NSYSUCR90150**
	NSYSPFC18100	**NSYSPFC18200**				-	-
	NSYSPFC24100	**NSYSPFC24200**				-	-
	100 mm	**200 mm**				**1 row (40)**	**3 rows (90)**
	-	-	-	-	-	-	-
	NSYSPC4100	2 x **NSYSPC4100**	-	-	-	-	-
	NSYSPC5100	2 x **NSYSPC5100**	-	-	-	**NSYSUCR4040**	**NSYSUCR9040**
	NSYSPC6100	2 x **NSYSPC6100**	-	-	-	-	-
	NSYSPC8100	2 x **NSYSPC8100**	-	-	-	-	-



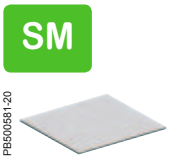


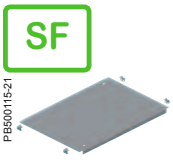


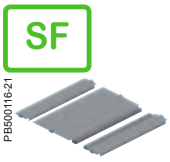
(1) Only for version with width of 2400 mm.

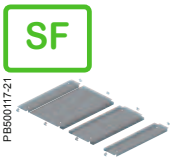
Steel floor-standing enclosures
Accessories

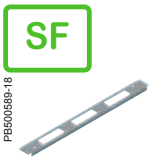
Cable entries



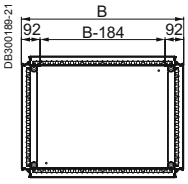


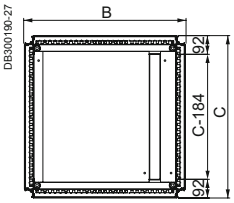




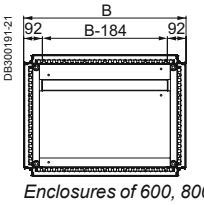


Characteristics		Plain cable-gland plate	Plain cable-gland plate	With 1 entry	With 2 entries	Cable-gland plate for connectors	
		The design of the compact cable gland plate, coupled with the use of the sealing gasket **NSYCEK** enable the maximum dust/water tightness.		Facilitates the entry of cables thanks to a longitudinal opening.	Cable entry for very deep enclosures (600 and 800 mm). Two longitudinal openings allowing a large number of cables through.	Adapter plate to install cable entry plates for connectors, see page 279. To be used together with cable-gland plates, 1 or 2 entries, adding or replacing one of the parts.	
Material		Steel painted with epoxy-polyester resin, RAL 7035	Galvanised steel			Galvanised steel	
Thicknesses		10/10e mm	15/10e mm			15/10e mm	
Supply		Plain plate and fixing elements	Plain plate and fixing elements	Plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements	1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements	Plate and fixing elements	
Width (B)	**Depth (C)**	**References**				**No. of cuts**	**References**
300	500	-	**NSYEC35**	**NSYEC351**	-	-	-
	600	-	**NSYEC36**	**NSYEC361**	-		
400	400	-	**NSYEC44**	**NSYEC441**	-	-	-
	500	-	**NSYEC45**	**NSYEC451**	-		
	600	-	**NSYEC64**	**NSYEC461**	-		
	800	-	**NSYEC84**	**NSYEC481**	-		
600	300	**NSYSMEC63**	-	-	-	2	**NSYDCE6**
	400	**NSYSMEC64**	**NSYEC64**	**NSYEC641**	-		
	500	**NSYSMEC65**	**NSYEC65**	**NSYEC651**	-		
	600	**NSYSMEC66**	**NSYEC66**	**NSYEC661**	**NSYEC662**		
	800	-	**NSYEC68**	**NSYEC681**	**NSYEC682**		
800	300	**NSYSMEC83**	-	-	-	3	**NSYDCE8**
	400	**NSYSMEC84**	**NSYEC84**	**NSYEC841**	-		
	500	**NSYSMEC85**	**NSYEC85**	**NSYEC851**	-		
	600	**NSYSMEC86**	**NSYEC86**	**NSYEC861**	**NSYEC862**		
	800	-	**NSYEC88**	**NSYEC881**	**NSYEC882**		
1000	300	**NSYSMEC103**	-	-	-	4	**NSYDCE10**
	400	**NSYSMEC104**	**NSYEC104**	**NSYEC1041**	-		
	500	**NSYSMEC105**	**NSYEC105**	**NSYEC1051**	-		
	600	-	**NSYEC106**	**NSYEC1061**	**NSYEC1062**		
	800	-	**NSYEC108**	**NSYEC1081**	**NSYEC1082**		
1200	300	2 x **NSYSMEC63**	-	-	-	4	**NSYDCE12**
	400	2 x **NSYSMEC64**	**NSYEC124**	**NSYEC1241**	-		
	500	2 x **NSYSMEC65**	**NSYEC125**	**NSYEC1251**	-		
	600	2 x **NSYSMEC66**	**NSYEC126**	**NSYEC1261**	**NSYEC1262**		
	800	-	**NSYEC128**	**NSYEC1281**	**NSYEC1282**		
1600	400	2 x **NSYSMEC84**	**NSYEC164**	**NSYEC1641**	-	-	-
	500	2 x **NSYSMEC85**	**NSYEC165**	**NSYEC1651**	-		
	600	2 x **NSYSMEC86**	**NSYEC166**	**NSYEC1661**	**NSYEC1662**		

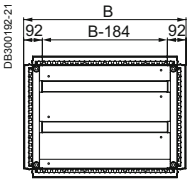




Enclosures of 300 and 400 mm width.

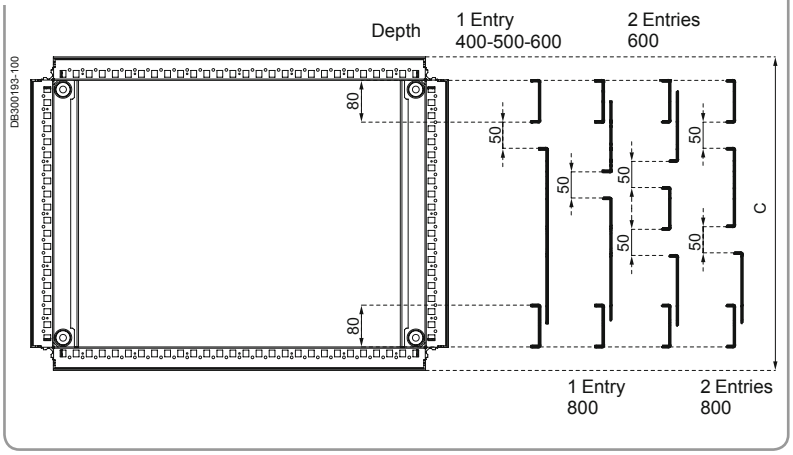


Enclosures of 600, 800, 1000 and 1200 mm width.



Steel floor-standing enclosures
Accessories

Possibilities of cable gland-plate adjustment



Gaskets

SF



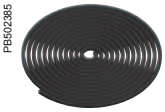
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SF



SF

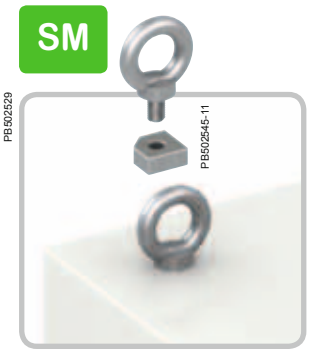


Dimensions (mm)	Brush-type cable-entry gasket		Foam cable-entry gasket	Sealing gasket
	For plates with 1 or 2 cable entries. The cables can have different diameters.	Brush-type gasket for installation on the cable-gland plates. The cables can have different diameters.	Spare gasket, made from self-extinguishing expanded polyurethane with a cross-section of 15 x 25 mm, for fixing on cable-gland plates.	Sealing gasket, made from ethylene-propylene with a cross-section of 3 x 10 mm, for mounting on the perimeter of the cable-gland plates. Adhesive to guarantee good sealing.
Width (mm)	**References**			**Reference**
400	**NSYBCE4**	-	**NSYCEJ**	**NSYCEK**
600	**NSYBCE6**	**NSYSMBCE6**		
800	**NSYBCE8**	**NSYSMBCE8**		
1000	**NSYBCE10**	**NSYSMBCE10**		
1200	**NSYBCE12**	2 x **NSYSMBCE6**		
1600	**NSYBCE16**	2 x **NSYSMBCE8**		

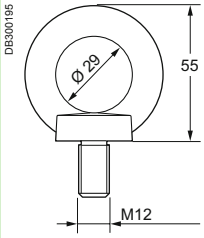
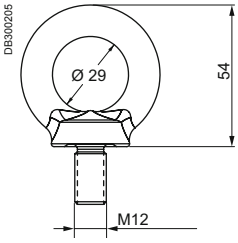
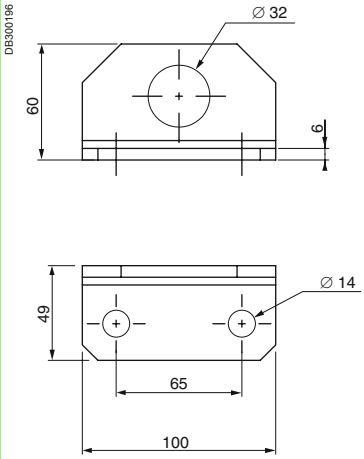
Steel floor-standing enclosures
Accessories

Lifting systems







Characteristics	Eyebolts		Lifting brackets
Maximum amount of assembled enclosures to be lifted	**1**		**2**
	Set of M12 lifting 12:12 which screw directly into the structure of the 13:13 the axis of the uprights.	Set of M12 lifting eyebolts, fixed to the enclosure by fixing nuts.	Set of lifting and transport brackets, fixed to the structure between two coupled enclosures, in the axis of the uprights.
Material	Galvanised cast steel	Galvanised cast steel	Zinc-coated steel
Maximum load	340 kg	340 kg	500 kg
Supply	4 eyebolts	4 eyebolts and 4 fixing nuts	4 brackets and fixing elements (M12 screws)
References			
	NSYSFEB	**NSYSMEB**	**NSYSFELB**
			

Steel floor-standing enclosures
Accessories

Lifting systems

SF

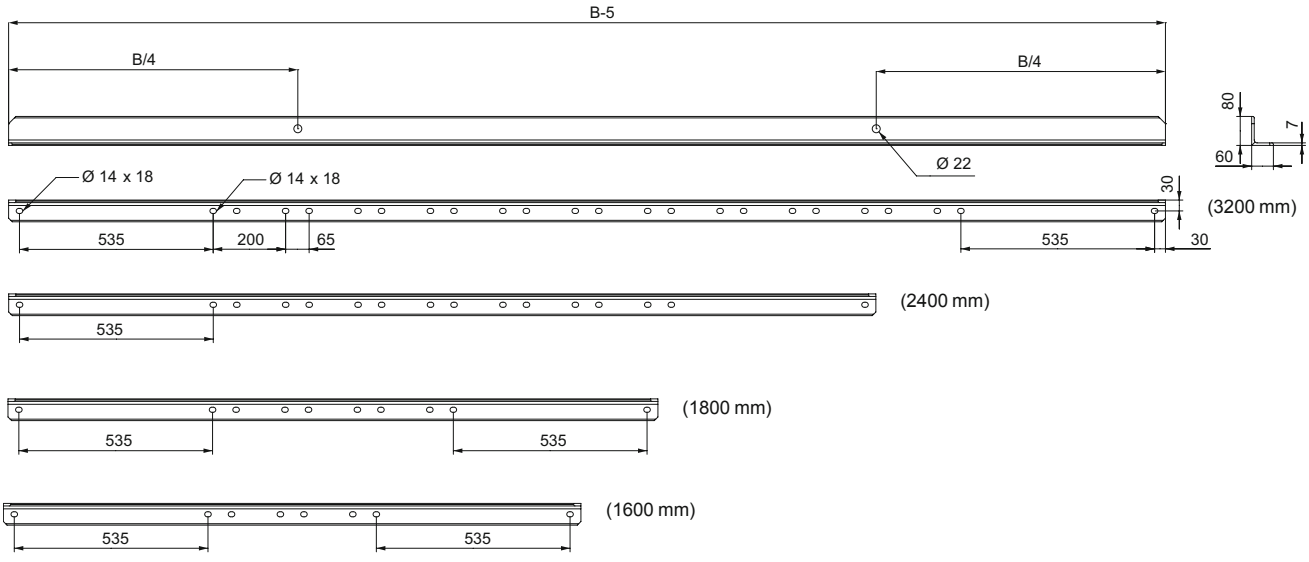
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Lifting bar

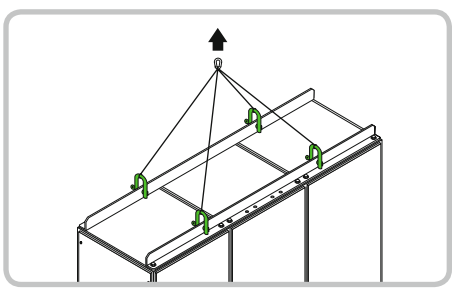
2	3	4	5
Set of bars for lifting and transporting enclosures suites. They are fixed to the structure of the enclosure, in the axis of the uprights.			
Steel			
2000 kg (lenght 1600 mm)	3000 kg (lenght 1800 mm)	3000 kg (lenght 2400 mm)	4000 kg (lenght 3200 mm)
2 lifting bars and fixing elements (M12 screws)			
NSYSFTB16	**NSYSFTB18**	**NSYSFTB24**	**NSYSFTB32**

DB300197



Recommended lifting points

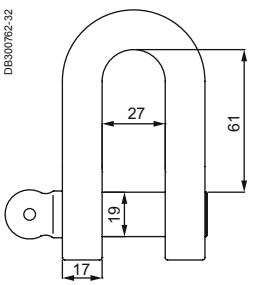
DE300769



Shackles
Lifting bar shackles.
- **Maximum load:** 1600 kg.
- **Supply:** 4 shackles.

Reference
NSYSFTBS

DB300762-32



Steel floor-standing enclosures
Accessories

Roof

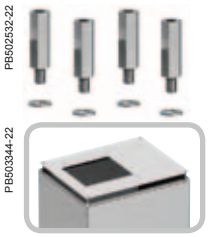
SM SF



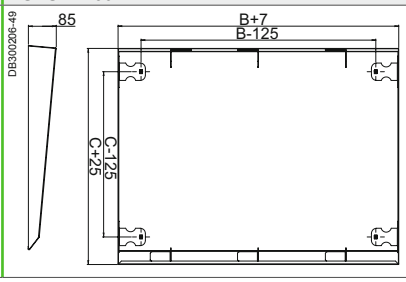
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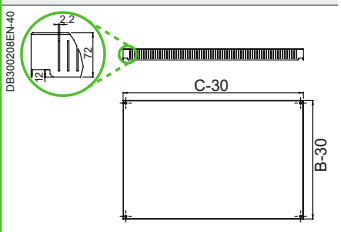


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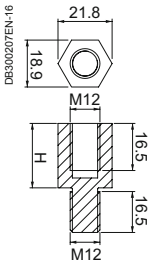
Characteristics		Canopy	Ventilated roof
		Provides excellent protection against splashes from rainwater. Highly recommended for outdoor applications. Not compatible with the simultaneous use of lifting elements. Spacial SF: it is possible to use a single canopy with combinations of modular enclosures (example of a 1600 mm canopy with two coupled 800-mm enclosures).	Roof providing natural ventilation for the enclosure, with IP30 protection. Height: an extra 63 mm in relation to the structure.
Material		Galvanised steel	Steel
Finish		Painted with polyester-epoxy resin	Painted with polyester-epoxy resin
Colour		RAL 7035 grey	RAL 7035 grey
Fixing		■ Spacial SF: fixing by drill holes to be made in the roof of the enclosure ■ Spacial SM: fixing by drill holes already made in the roof	-
Supply		One canopy, drilling template and fixing elements	One ventilated roof and four elevators
Width (B) (mm)	**Depth (C) (mm)**	**References**	
600	300	**NSYSC630**	-
	400	**NSYSC640**	-
	500	**NSYSC650**	-
	600	**NSYSC660**	**NSYSVR606**
	800	-	**NSYSVR608**
800	300	**NSYSC830**	-
	400	**NSYSC840**	-
	500	**NSYSC850**	-
	600	**NSYSC860**	**NSYSVR806**
	800	-	**NSYSVR808**
1000	300	**NSYSC1030**	-
	400	**NSYSC1040**	-
	500	**NSYSC1050**	-
	600	**NSYSC1060**	-
1200	300	**NSYSC1230**	-
	400	**NSYSC1240**	-
	500	**NSYSC1250**	-
	600	**NSYSC1260**	-
1600	400	**NSYSC1640**	-
	500	**NSYSC1650**	-
	600	**NSYSC1660**	-
1800	500	**NSYSC1850**	-
	600	**NSYSC1860**	-
2000	500	**NSYSC2050**	-
	600	**NSYSC2060**	-
2400	500	**NSYSC2450**	-
	600	**NSYSC2460**	-





Ventilation elevators for roof

		Allows the roof to be raised, providing natural ventilation. They are screwed onto the structure, at the roof fixing point.
Material		Zinc-coated steel
Supply		4 elevators
Height (H) (mm)	**IP**	**References**
23	10	**NSYRE26**
60	00	**NSYRE60**

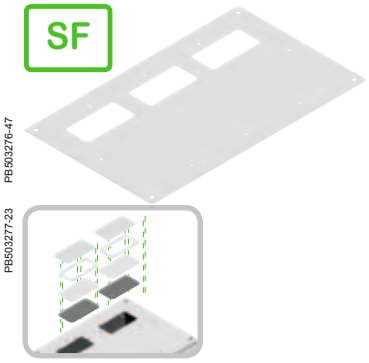


Steel floor-standing enclosures
Accessories

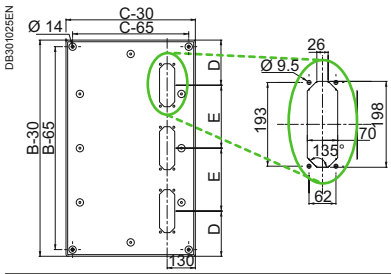
Roof

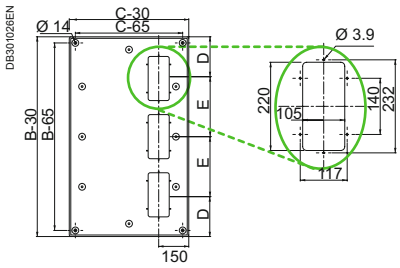
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SF



Characteristics					FL21 cable-entry roof	Cable-entry roof
					Roof prepared for installing FL21 cable-entry plates.	Roof prepared for installing cable-entry plates.
Material					Steel	Steel
Finish					Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
Colour					RAL 7035 grey	RAL 7035 grey
Supply					One cut-out roof for the FL21 cable-entry plates	One cut-out roof for the cable-entry plates
Dimensions (mm)		**Centre-to-centre distance (mm)**		**No. of entries**		
Width (B)	**Depth (C)**	**D**	**E**		**References**	
600	500	285	-	1	**NSYSFLR65**	**NSYSRCE650**
	600				**NSYSFLR66**	**NSYSRCE660**
800	500	195	-	2	**NSYSFLR85**	-
	600				**NSYSFLR86**	-
	500	220	-		-	**NSYSRCE850**
	600				-	**NSYSRCE860**
1000	500	195	290	3	**NSYSFLR105**	-
	600				**NSYSFLR106**	-
	500	220	285		-	**NSYSRCE1050**
	600				-	**NSYSRCE1060**





FL21 cable-entry membranes (1)

Membrane plate for watertight cable entries made from insulating material (fireresistance level UL 94 V-0).
Direct installation in the FL21 cable-entry plate adapter.
4 models: plain plate and membrane plates from 7 to 35 cable entries.
- **Material:** grey plastic.
- **Ingress protection rating:** IP66.
- **Supply:** membrane plate and fixing elements.

No. of cable entries	References
Plain	**NSYAECPFLBP** (2)
7	**NSYAECPFLT7**
25	**NSYAECPFLT25**
35	**NSYAECPFLT35**

(1) For more information, see page 279.
(2) Metallic plate.

Standard cable-entry plate (1)

Thickness	Reference
15/10e mm	**NSYTLC**

FlexiCable

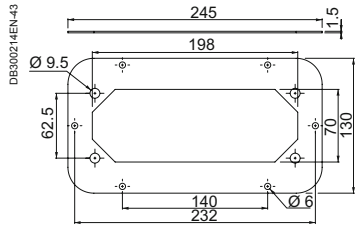
Reference
NSYTLCME

Aluminium cable-entry plate

Thickness	Reference
30/10e mm	**NSYTLCU**

Adapter for FL21 cable-entry plate

Thickness	Reference
15/10e mm	**NSYTLCFL**

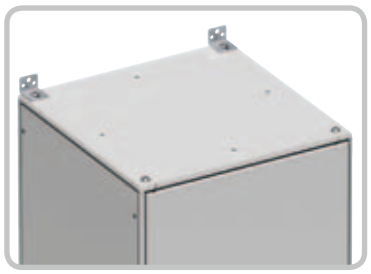


Steel floor-standing enclosures
Accessories

Wall fixing

SF

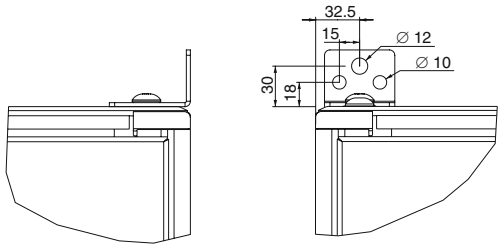
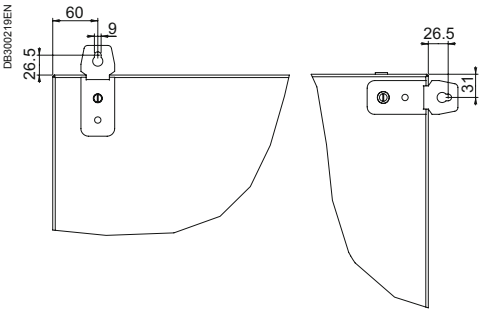
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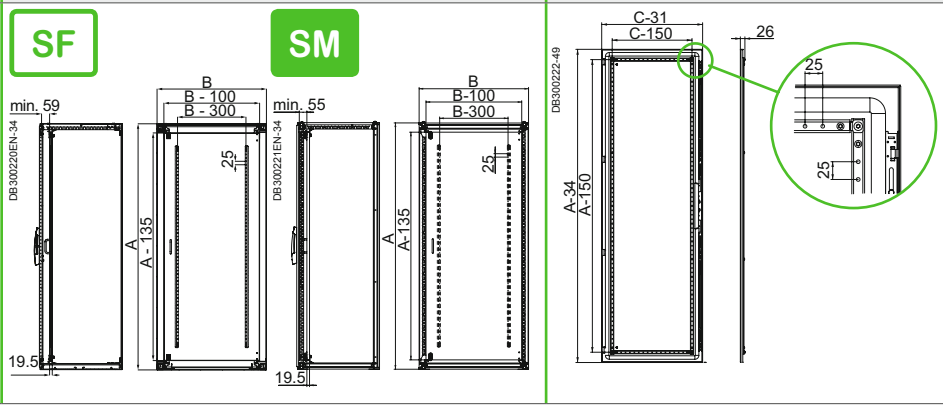
Characteristics	Wall fixing support	
	Supports for fixing the enclosure on the wall and preventing it from turning over. They cannot be used for hanging the enclosure. They are installed using the roof mounting screws.	Supports for fixing the enclosure on the wall and preventing it from turning over. They are installed using the drill holes in the back of the enclosure. Enclosure fixed from the outside.
Material	Zinc-coated steel	Zinc-coated steel
Supply	2 supports	2 supports
References		
	NSYSFWFIX	**NSYSMWFIX**
	DB301027EN 	DB300219EN 

Steel floor-standing enclosures
Accessories

Doors



Characteristics		Inner door	Side door
		Door for additional protection. Prevents the switchgear from being manipulated by unauthorised personnel. Allows the installation of switchgear mounted directly on the door. Mounting on the top and bottom frame of the enclosure. Depth adjustable with a pitch of 25 mm, from the first fixing point. Opening to right or left, with two locks, 3-mm double-bar, with central handle. Reinforcement frames on the rear, cut-outs with a 25-mm pitch, for equipping the door. Maximum acceptable load: 15 kg.	Door for the side of the enclosure, replaces the side panel. Installation directly on the structure of the enclosure, opening 120°. Lock with handle and 5-mm double-bar insert. 4 locking points. Reinforcement frame, cut-out with a pitch of 25 mm. Opening to right or left.
Material		Steel	Steel
Finish		Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
Colour		RAL 7035 grey	RAL 7035 grey
Supply		One inner door and fixing elements	One side door, four hinges, four catches and handle lock
Height (mm)	**Width/Depth (mm)**	**References**	
1200	600	-	**NSYSFD126**
	800	-	**NSYSFD128**
1400	600	-	**NSYSFD146**
	800	-	**NSYSFD148**
1600	600	**NSYID166**	**NSYSFD166**
	800	**NSYID168**	**NSYSFD168**
1800	400	-	**NSYSFD184**
	500	-	**NSYSFD185**
	600	**NSYID186**	**NSYSFD186**
	800	**NSYID188**	**NSYSFD188**
	1000	**NSYID1810**	-
2000	400	-	**NSYSFD204**
	500	-	**NSYSFD205**
	600	**NSYID206**	**NSYSFD206**
	800	**NSYID208**	**NSYSFD208**
	1000	**NSYID2010**	-
2200	400	-	**NSYSFD224**
	500	-	**NSYSFD225**
	600	**NSYID226**	**NSYSFD226**
	800	**NSYID228**	**NSYSFD228**



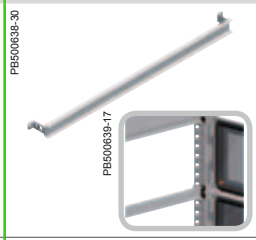
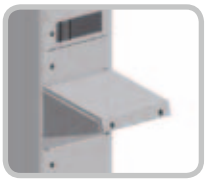
Steel floor-standing enclosures
Accessories

Doors

Partials doors

	Front Fix panel for modularity		Frontal partial doors		Frontal Transparent partial doors	
						
	Width: 600 mm	**Width: 800 mm**	**Width: 600 mm**	**Width: 800 mm**	**Width: 600 mm**	**Width: 800 mm**
Characteristics	■ Top & bottom fix panel to obtain modularity required to install partial doors (Intermediate crossbar integrated). ■ H100 mm fixed panels are delivered as standard for the compartmentalised enclosure, Spacial SFM. Possibility to order it separately for Spacial SF framework in kit supply. ■ Available in 2 heights (mm).		■ Plain partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework by means of hinges. ■ Drilling template for uprights ref. **NSYMDT** (Only 1 drilling template by order is needed). ■ Opening to right or left. ■ 1, 2 or 4 locking points according different heights. ■ Possibility to replace locking insert (see page 116). ■ Available in following heights (mm).		■ Glazed (Securit glass) partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework bymeans of hinges. ■ Opening to right or left. ■ 1, 2 or 4 locking points according different heights. ■ Available in following heights (mm).	
Height (mm)	**References**					
100	**NSYMFP2M6**	**NSYMFP2M8**	-	-	-	-
150	-	-	**NSYMPD3M6**	**NSYMPD3M8**	-	-
200	-	-	**NSYMPD4M6**	**NSYMPD4M8**	**NSYMPD26T**	**NSYMPD28T**
250	**NSYMFP5M6**	**NSYMFP5M8**	**NSYMPD5M6**	**NSYMPD5M8**	-	-
300	-	-	**NSYMPD6M6**	**NSYMPD6M8**	-	-
400	-	-	**NSYMPD8M6**	**NSYMPD8M8**	**NSYMPD46T**	**NSYMPD48T**
450	-	-	**NSYMPD9M6**	**NSYMPD9M8**	-	-
600	-	-	**NSYMPD12M6**	**NSYMPD12M8**	**NSYMPD66T**	**NSYMPD68T**
800	-	-	**NSYMPD16M6**	**NSYMPD16M8**	**NSYMPD86T**	**NSYMPD88T**
900	-	-	**NSYMPD18M6**	**NSYMPD18M8**	-	-
1000	-	-	**NSYMPD20M6**	**NSYMPD20M8**	**NSYMPD106T**	**NSYMPD108T**
1200	-	-	**NSYMPD24M6**	**NSYMPD24M8**	-	-

Other external claddings for multi-purpose applications

	Intermediate Crossbar	Folding panel	Control desk
			
Characteristics	■ It is mounted between. Partial doors or between doors and control desk, guaranteeing good sealing. ■ To be used in the absence of the partition tray. ■ Crossbar with direct fixing to the structure. ■ Available in 2 widths (mm).	■ H300 mm horizontal panel, hinged at the top. ■ Guarantees protection of the sets of bars. ■ Opening angle: 110°. ■ It is installed together with partial doors to create the modularity of the enclosure. ■ 2 locking points, 5 mm double-bar insert. ■ Available in 2 widths (mm).	■ Support for human-machine dialogue. ■ H400 mm Control desk is installed together with partial doors to create the modularity of the enclosure. ■ 2 locking points, 5 mm double-bar insert. ■ Available in 2 widths (mm).
Supply	2 crossbars (1)	-	-
Width (mm)	**References**		
600	**NSYMIC6**	**NSYCDP36**	**NSYMCOD264**
800	**NSYMIC8**	**NSYCDP38**	**NSYMCOD284**

(1) With fixing elements.

Steel floor-standing enclosures
Accessories

SF SM

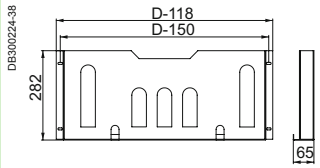
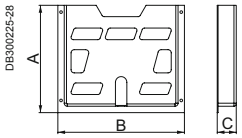
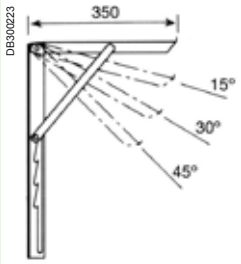
Door accessories


PB502558-25


PB502533-30


PB502534-30

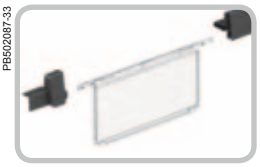

PB502559-25

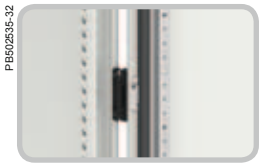
Characteristics				Metal document pocket	Plastic document pocket	Folding support tray
				Direct mounting on the reinforcement frame of the door. Adjustable depth with a pitch of 25 mm.	Attachment by adhesive tape.	Adjustable horizontal support for laptop computers, documents or any other element. Installation on the reinforcement frame of the door. Can also be installed on the door cross rails, see page **296**. 4 positions: 45°, 60°, 75° and 90°.
Material				Steel	Polystyrene (PS)	Steel
Finish				Painted with polyester-epoxy resin	-	Painted with epoxy-polyester resin
Colour				RAL 7035 grey	RAL 7035 grey (NSYDPA4: RAL9001)	RAL 7035 grey
Maximum load				-	-	30 kg
Supply				One metal document pocket and fixing elements	One plastic document pocket	One folding support tray and fixing elements
Dimensions (mm)				**References**		
Doc. format	**A**	**B**	**C**			
A5	174	188	22	-	**NSYDPA5**	-
A4	230	247	23	-	**NSYDPA4**	-
A4	234	278	40	-	**NSYDPA44**	-
A3	285	476	35	-	**NSYDPA3**	-
Width (D)						
500				-	-	**NSYSDT5**
600				**NSYSDP6M**	-	**NSYSDT6**
800				**NSYSDP8M**	-	**NSYSDT8**
						

Steel floor-standing enclosures
Accessories

SF SM

Door accessories



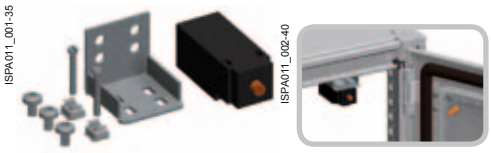








Characteristics		180° hinge	Door-centring caster	Trim plate	Customisable label holder
		Hinge with opening of 180°. Intended to replace the 120° hinges installed as standard. They are compatible with the transparent door and can be installed even with enclosure suites.	Allows the door to be raised when closing. Direct mounting on the reinforcement frame.	Trim plate for Spacial SF and SM plain and transparent doors. The Schneider Electric logo can be placed on the left or on the right.	Label holder to be placed on trim plate to customise the enclosure. Delivered with a printable blank label.
Material		Aluminium and zamak	-	UV-resistant plastic	Polycarbonate (PC)
Finish		Painted RAL 9005 black	-	-	-
Mechanical protection rating		-	-	IK09	-
Maximum load		60 kg on the door	60 kg	-	-
Supply		4 hinges, template for making the drill holes and fixing elements	One centring roller and fixing elements	1 trim plate for single doors, 2 trim plates for double doors	5 label holders
		References			
		NSYSH180	**NSYSDRC**	-	**NSYCBLSF**
Width (mm)	**No. of doors**	**References**			
300	1	-	-	**NSYTRIM3SF**	-
400	1	-	-	**NSYTRIM4SF**	-
500	1	-	-	**NSYTRIM5SF**	-
600	1	-	-	**NSYTRIM6SF**	-
700	1	-	-	**NSYTRIM7SFP**	-
800	1	-	-	**NSYTRIM8SF**	-
	2	-	-	**NSYTRIM8SF2D**	-
1000	1	-	-	**NSYTRIM10SF**	-
	2	-	-	**NSYTRIM10SF2D**	-
1200	2	-	-	**NSYTRIM12SF2D**	-
1600	2	-	-	**NSYTRIM16SF2D**	-



	Door switch	
	For Spacial SF & SFX	**For Spacial SM**
See page	295	295
Supply	1	1
References		
	NSYDCM20	**NSYMDCM20**

Steel floor-standing enclosures
Accessories

Locking system


PB502444-14


PB502445-32


PB502536-12

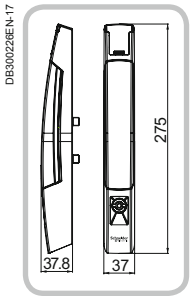

PB502542-31

Characteristics	Padlock locking	CNOMO kit
	Padlock locking system, for installation in all the handles of the Spacial SF and Spacial SM enclosures. Bolt with 7.5-mm drill hole.	Locking system to be installed on the central locking bar of the door. It works as a locking bar immobiliser, preventing the handle from closing while the door is still open. It is compatible with all handle lock versions, except the flat lock and the small flat lock.
Supply	One cut-out handle, bolt for padlock and bolt fixing screw	One mechanism and fixing elements
References		
	NSYBLKH123	**NSYCNOH123**

Steel floor-standing enclosures
Accessories

Locking system





Characteristics	Handle for shape inserts and cylindrical barrels
	Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
Material	Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour
Mechanical protection rating	IK10
Fire resistance	650°C
Supply	Standard handle and fixing elements (insert not included)
References	
	NSYSFHS1

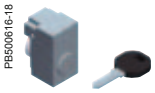
Accessories



Shape inserts



Push button



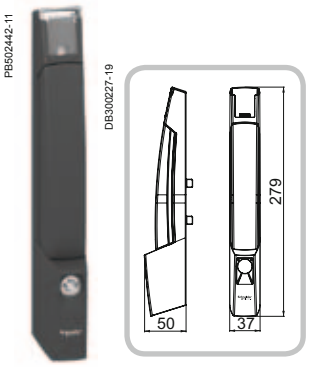
Cylindrical barrels

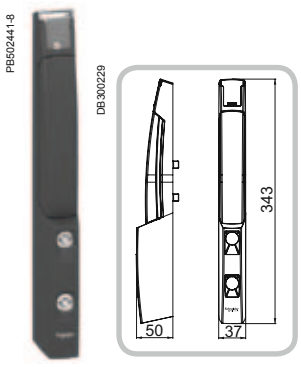
Shape inserts	References
6-mm square insert	**NSYINS61**
Female 6-mm square insert	**NSYINS6G1**
7-mm square insert	**NSYINS71**
8-mm square insert	**NSYINS81**
Female 8-mm square insert	**NSYINS8G1**
8-mm square insert with slot	**NSYINS8H1**
6.5-mm triangular insert	**NSYINT61**
7-mm triangular insert	**NSYINT71**
8-mm triangular insert	**NSYINT81**
9-mm triangular insert	**NSYINT91**
10-mm triangular insert	**NSYINT101**
10-mm keyless hexagonal insert	**NSYINH31**
3-mm double-bar insert	**NSYINDB31**
5-mm double-bar insert	**NSYINDB51**
Daimler Benz insert	**NSYINBENZ1**
Fiat insert	**NSYINFIAT1**
Keyless USA slot insert	**NSYINUSA1**
Keyless 2 x 4 slot insert	**NSYIN241**
Crown insert	**NSYINCW1**
Push button	**Reference**
Push button	**NSYINPULS1**

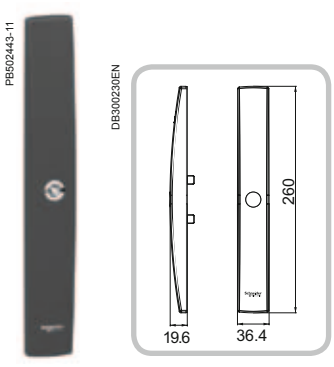
Cylindrical barrels	References
405E key lock	**NSYIN405E1**
421E key lock	**NSYIN421E1**
455 key lock	**NSYIN4551**
1242E key lock	**NSYIN1242E1**
1332E key lock	**NSYIN1332E1**
2124E key lock	**NSYIN2124E1**
2131A key lock	**NSYIN2131A1**
2132A key lock	**NSYIN2132A1**
2331A key lock	**NSYIN2331A1**
2433A key lock	**NSYIN2433A1**
2452E key lock	**NSYIN2452E1**
3113A key lock	**NSYIN3113A1**
3122E key lock	**NSYIN3122E1**
3123A key lock	**NSYIN3123A1**
3131A1 key lock	**NSYIN3131A1** New
3133A key lock	**NSYIN3133A1**
3422E key lock	**NSYIN3422E1**
3432E key lock	**NSYIN3432E1**
6101 key lock	**NSYIN6101** New
EDF1300 key lock	**NSYINF1301**
EDF1400 key lock	**NSYINF1401**
Michelin 8079 keyless lock	**NSYINICHEL8791**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

Steel floor-standing enclosures
Accessories

Locking system

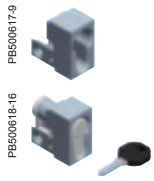




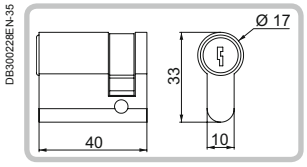


	Handles for insert types DIN, KABA, ASSA		Flat escutcheon lock
	Insert handle	**Double-insert handle**	
	The inserts are easily and quickly mounted without any screws and allow the installation of profiled DIN, KABA and ASSA locks. To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. NSYLADP. Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.	The double insert handle can perform the "AND" and "OR" functions (are supplied with the handle). - "AND" function: one insert blocks the activation of the other insert. - "OR" function: either insert can release the handle. Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame. To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. NSYLADP.	Optional flat escutcheon lock. Replaces the handle lock. Easy to change the opening direction of the door, right/left. Possibility of changing the turning direction of the insert.
	Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour		Polyamide 6 with 30 % fibreglass, RAL 9005 black
	IK10		IK10
	650ºC		650ºC
	One handle for DIN, KABA and ASSA inserts and fixing elements (insert not included)		Flat lock, shape insert, key and fixing elements
	NSYSFHD2	**NSYSFHD3**	-

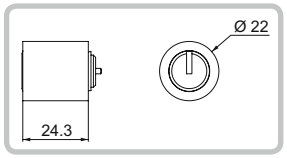
Lock system: DIN, KABA and ASSA	References
Adapter for DIN cylinder	**NSYINDIN2**
Adapter for KABA cylinder (1)	**NSYINKBA2**
Adapter for ASSA cylinder	**NSYINASSA2**
1242E key lock	**NSYIN1242E2**
Reinforced key lock	**NSYINKR2**
JIS key lock	**NSYINKJIS2**
FAC key lock	**NSYINKFAC2**



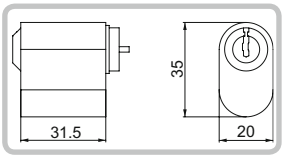
(1) Adapter for receiving the KABA8, KABA20 and KABA start cylinders.



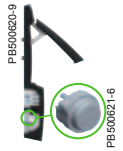
Insert dimensions for DIN adapters.



Insert dimensions for KABA adapters.



Insert dimensions for ASSA adapters.



Adapter for shape inserts and cylindrical barrels	References
Plastic adapter for installing shape inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA. See shape inserts and cylindrical barrels. See insert types DIN, KABA, ASSA. Supply: 1 unit.	**NSYLADP**

Models	References
 Flat lock + screwdriver slot, 2-mm groove	**NSYSFLOCK24**
 Flat lock + 8-mm triangular insert	**NSYSFLOCKT8**
 Flat lock + 7-mm triangular insert	**NSYSFLOCKT7**
 Flat lock + 6.5-mm triangular insert	**NSYSFLOCKT6**
 Flat lock + 8-mm female square insert	**NSYSFLOCKSG8**
 Flat lock + 8-mm square insert	**NSYSFLOCKS8**
 Flat lock + 7-mm square insert	**NSYSFLOCKS7**
 Flat lock + 6-mm square insert	**NSYSFLOCKS6**
 Flat lock + 5-mm double-bar insert	**NSYSFLOCKDB5**

Stainless-steel wall-mounting enclosures

Stainless-steel wall-mounting enclosures
Contents



Spacial S3X **120**
Stainless-steel wall-mounting enclosures

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Associated applicative offers

S3XEX Potentially explosive atmospheres 402

Stainless-steel wall-mounting enclosures
Introduction

PB501229.eps



What is stainless steel?

How is the stainless steel grade determined?

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

Thanks to an elaborate composition

■ The following table shows the percentages of the main alloy elements that make up stainless steels. The resistance of the material to aggressive agents in the environment depends mainly on these alloys.

Stainless-steel type		Chemical composition (%)			
AISI grade	N. Europe	Carbon	Chromium	Nickel	Molybdenum
304L	1.4307	< 0.03	17 - 19	8 - 10	0
316L	1.4404	< 0.03	17 - 19	10 - 13	2 - 2.25

PB501230



Choosing a stainless steel grade

AISI 304L stainless steel (known as food and beverage stainless steel)

The most commonly used type in the food and beverage industry for its resistance to corrosion and easy cleaning.

■ Prevention against corrosion, especially in the presence of organic acids.
■ Resistance to the action of nitrous gas in the presence of condensation water and in most aggressive environments.

PB501231



AISI 316L stainless steel (known as marine stainless steel)

Recommended in salty or chlorinated environments due to its very high resistance to corrosion thanks to the presence of molybdenum.

■ Improved resistance to corrosion.
■ Particularly well adapted to environments charged with acidity, bromine and saline halides or which use very corrosive additives and solvents.

Stainless-steel wall-mounting enclosures
Introduction

The finish

The finish: 3 solutions against aggressive environmental agents

Surface condition plays an important role in the fight against bacteria.
The lower the roughness, the fewer bacteria become incrusted.
Reduced roughness means fewer bacteria, less adherence of materials and an impeccable finish.
To choose a finish is also to choose an appearance of the enclosures that matches the environment of other machines and equipment.

PB501232



> Solution 1: Scotch-Brite® brushing

The method used consists of brushing as defined by the ASTM (American Society for Testing and Material).

- Finish very commonly used for the chemical and food and beverage industries.
- Surface roughness is improved thanks to an additional polishing process which offers more efficient characteristics against polluting elements.
- Surface roughness, Ra ≤ 0.8 µm.

PB501233



> Solution 2: Micro-beading (on request)

Exclusiveness, an impeccable finish with smooth silky appearance.

The method:

- Bombardment with miniscule ceramic balls of the entire surface to be treated at very high speed.
- Closes micro-cracks caused during lamination by flattening.

The result:

- Increased hardness.
- Reduced surface roughness (Ra ≈ 0.8 µm).
- A perfectly even surface, with a silky appearance (no scratches and no burrs).
- Reduces the adherence of materials.
- Allows disinfection.

Typical application: pharmaceutical and food and beverage industries.

PB501234



> Solution 3: Protective painting (on request)

The highest protection against aggressions, external pollution and projections of metal particles.

- Provides the ultimate protection against corrosion.

Typical applications: marine, seaside, off-shore.

Stainless-steel wall-mounting enclosures
Introduction

> These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

PB500075-75

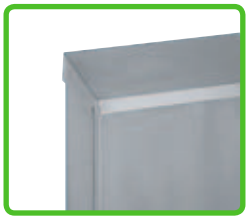


PB501225-31



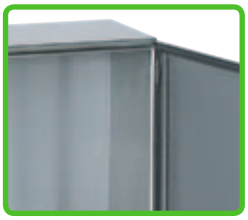
Finishes
- Two types of steel offered as standard: 304L and 316L, with Scotch-Brite® brushed finish.
- Painted or micro-beaded finish (on request).

PB501239



Large range of accessories
- Stainless-steel accessories: canopy, wall-fixing lugs.
- Accessories of the standard offer: mounting plate, inner door, modular chassis and step slides.
- Large selection of locks with 100 % stainless-steel transformation.

PB501240-60



Sealing
- Protection rating of IP66 (1 door) or IP55 (2 doors) according to IEC 60529: complete protection against dust and water sprays.
- Polyurethane gasket.
- Gutter-shaped front profile.
- Three closure points for the double door.

PB501241



Robustness and durability
- Resistance to external mechanical impacts:
  - IK10: plain door,
  - IK08: glazed door.
- Door reinforcement frame or profile.
- Stainless-steel hinges.

PB502979-16



Convenience and time saving
- 304L or 316L stainless-steel wall-fixing lugs.
- Vertical reinforcement perforated profiles, which make it easier to equip the door.
- Reversible door opening to 120°.
- Easy installation directly on the machine thanks to the 4 rear drill holes.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

Stainless-steel wall-mounting enclosures
Characteristics


PB500075-40


PB501243-28


PB501244-31

Characteristics	304L stainless-steel		316L stainless-steel
	Enclosure with plain door.	Enclosure with glazed door, Securit® glass, 4 mm thick.	Enclosure with plain door.
Material	AISI 304L		AISI 316L
Finish	Scotch-Brite® brushed		
Thickness	10/10e - 15/10e mm		
Ingress protection rating	IP66 (1 door) or IP55 (2 doors)		
Mechanical protection rating	IK10	IK08	IK10
Standards	■ IEC 62208		
Certifications	■ UL 508A ■ CAN/CSA 22 ■ NEMA □ 1 door enclosure: type 1, 2, 3, 3R, 4, 4X, 5, 12, 13 □ 2 doors enclosure: type 1, 12, 12K		
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure		
Other characteristics	■ Single-piece body (cross-shaped structure). Gutter-shaped front profile ■ 4 rear studs for fixing the material ■ 2 cut-out vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for installing accessories ■ Door strengthening frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drill holes with a diameter of 5 mm and a pitch of 25 mm ■ Standard lock with 3-mm double-bar lock (chrome-plated zamak) ■ 2 locking points for heights of more than 500 mm or three points for two-door enclosures ■ Stainless-steel hinges screwed to the body of the enclosure. They make it easier to remove and invert the door. Opening angle: 120° ■ Maximum load on the door: 50 kg/m² ■ Polyurethane gasket ■ M6 x 16 screws on the door and on the body, allowing equipotential connection between the earth connections (on request) ■ 4 holes for fixing to the wall directly or with the help of mounting lugs (on request), blocked by sealing plugs		

External dimensions (mm)					References		
Height	**Width**	**Depth**	**No. of locks**	**No. of doors**	**Plain door**	**Glazed door****	**Plain door**
300	200	150	1	1	**NSYS3X3215**	-	**NSYS3X3215H**
	250	150	1	1	**NSYS3X302515**	-	**NSYS3X302515H**
	300	150	1	1	**NSYS3X3315**	-	**NSYS3X3315H**
400	300	150	1	1	**NSYS3X4315**	-	**NSYS3X4315H**
		200	1	1	**NSYS3X4320**	**NSYS3X4320T**	**NSYS3X4320H**
	400	200	1	1	**NSYS3X4420**	-	**NSYS3X4420H**
	600	200	1	1	**NSYS3X4620**	-	**NSYS3X4620H**
500	400	200	2	1	**NSYS3X5420**	**NSYS3X5420T**	**NSYS3X5420H**
600	400	200	2	1	**NSYS3X6420**	**NSYS3X6420T**	**NSYS3X6420H**
	600	250	2	1	**NSYS3X6625**	-	**NSYS3X6625H**
	1000	300	*	2	**NSYS3X601030** New	-	-
	1200	300	*	2	**NSYS3X601230** New	-	-
700	500	250	2	1	**NSYS3X7525**	**NSYS3X7525T**	**NSYS3X7525H**
800	600	250	2	1	**NSYS3X8625**	**NSYS3X8625T**	**NSYS3X8625H**
	800	300	2	1	**NSYS3X8830**	-	**NSYS3X8830H**
	1000	300	*	2	**NSYS3X801030** New	-	-
	1200	300	*	2	**NSYS3X801230** New	-	-
1000	800	300	2	1	**NSYS3X10830**	**NSYS3X10830T**	**NSYS3X10830H**
	1000	300	*	2	**NSYS3X101030**	-	**NSYS3X101030H**
1200	800	300	2	1	**NSYS3X12830**	-	**NSYS3X12830H**
	1000	300	*	2	**NSYS3X121030**	-	**NSYS3X121030H**

** Three-point closure system.*
*** The glazed door has no reinforcement.*

Stainless-steel wall-mounting enclosures

Dimensions

External dimensions (mm)			Fig.
A	B	C	
300	200	150	1
	250	150	1
	300	150	1
400	300	150	1
	300	200	1
	400	200	1
	600	200	1
500	400	200	2*
600	400	200	2
	600	250	2
	1000	300	4
	1200	300	4
700	500	250	2
800	600	250	2
	800	300	2
	1000	300	4
	1200	300	4
1000	800	300	3
	1000	300	4
1200	800	300	3
	1000	300	4

** Without door reinforcement.*

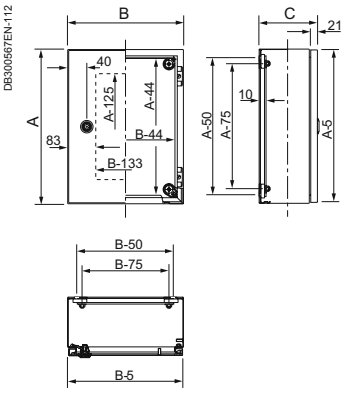


Fig. 1

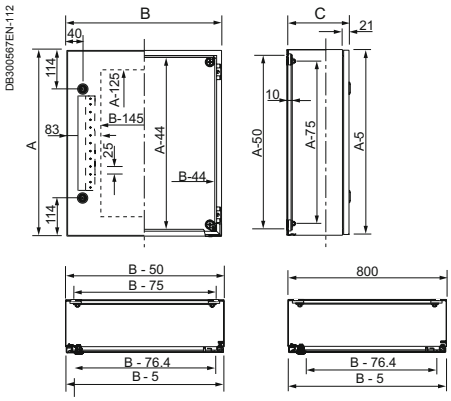


Fig. 2

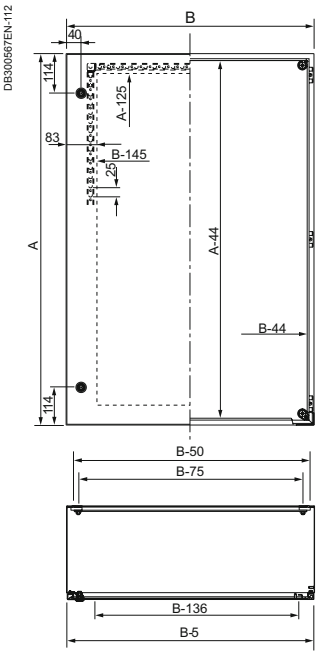


Fig. 3

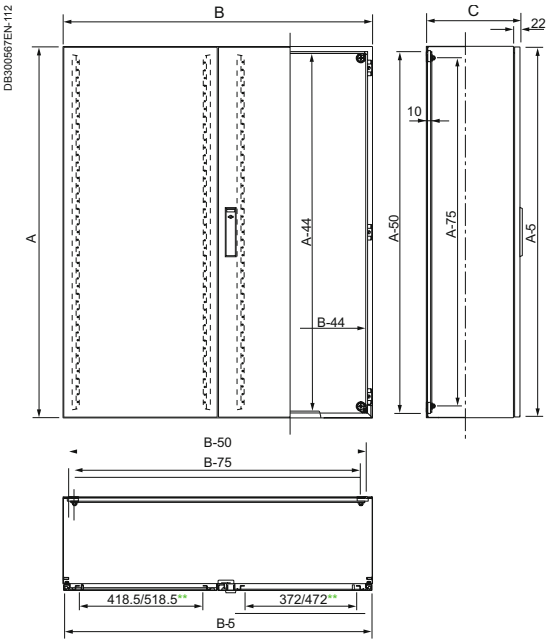
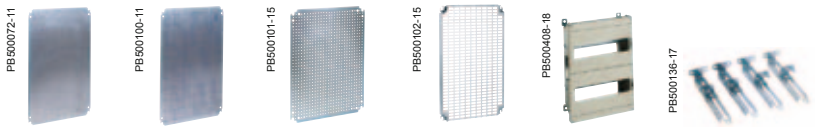


Fig. 4

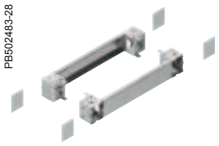
*** For glazed door.*

Stainless-steel wall-mounting enclosures
Accessories



External dimensions (mm)			No. of modules	References					
Height	Width	Depth		Mounting plate					Step slides
				Plain	Silkscreened	Microperforated	Telequick	Modular	
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
500	400	200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
	600	250	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
	1000	300*	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
	1200	300*	-	NSYMM126	-	NSYMF126	-	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
	500	250	88	-	-	-	-	NSYDLM88	-
800	600	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
	600	250	112	-	-	-	-	NSYDLM112	-
	800	300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
	1000	300*	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
	1200	300*	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
	1000	300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

** Three-point closure system.*



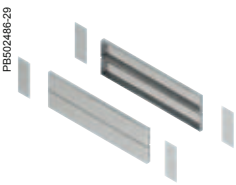
Plinth height 100 mm (4 corners + front and back)



Plinth height 100 mm (Set of 2 side panels)



Plinth height 200 mm (4 corners + front and back)



Plinth height 200 mm (Set of 2 side panels)

Characteristics	Plinths	
Material	Stainless-steel, AISI 304L	Stainless-steel, AISI 316L
Finish	Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion	
Installation	It is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing hardware and drilling jig	

External dimensions (mm)			Plinth height 100 mm		Plinth height 200 mm		Plinth height 100 mm		Plinth height 200 mm	
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)
800	800	300	NSYSPFX8100	NSYSPSX3100	NSYSPFX8200	NSYSPSX3200	NSYSPFX8100H	NSYSPSX3100H	NSYSPFX8200H	NSYSPSX3200H
1000	800	300	NSYSPFX8100	NSYSPSX3100	NSYSPFX8200	NSYSPSX3200	NSYSPFX8100H	NSYSPSX3100H	NSYSPFX8200H	NSYSPSX3200H
	1000	300	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYSPFX10100H	NSYSPSX3100H	NSYSPFX10200H	NSYSPSX3200H
1200	800	300	NSYSPFX8100	NSYSPSX3100	NSYSPFX8200	NSYSPSX3200	NSYSPFX8100H	NSYSPSX3100H	NSYSPFX8200H	NSYSPSX3200H
	1000	300	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYSPFX10100H	NSYSPSX3100H	NSYSPFX10200H	NSYSPSX3200H

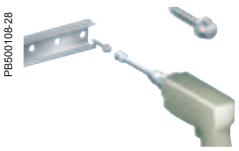












	Cable entries	Adhesive plastic document pocket	Door switch	Lighting	Clip-on nuts	Plain mounting plate screw		
						Self-tapping screw		
						M6 x 16	M5 x 13	M5 x 16
See page	266	295	295	292	244	-	-	-
Supply	10	1	1	1	100	100	100	100
References								
	-	NSYDPA44	NSYINLCRN	NSYLAMLDS	AF1EA6	NSYS16M6HS	NSYS13M5HS	NSYS16M5HS

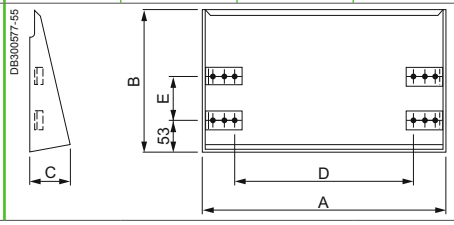
Stainless-steel wall-mounting enclosures
Accessories



Canopy

Material	304L stainless-steel sheet
Finish	Scotch-Brite® brushed
Thickness	15/10e mm
Installation	Direct fixing to the body of the enclosure
Supply	Delivered with the fixings required for installation

No. of locks	No. of doors	For wall-mounting enclosures (mm)			Dimensions (mm)					References
		Height	Width	Depth	A	B	C	D	E	
1	1	300	200	150	205	183	51	120	-	NSYTX2015
			250	150	205	183	51	120	-	NSYTX2515
			300	150	305	183	51	220	-	NSYTX3015
		400	300	150	305	183	51	220	-	NSYTX3015
			300	200	305	233	51	220	70	NSYTX3020
			400	200	405	233	70	320	70	NSYTX4020
			600	200	605	233	70	520	70	NSYTX6020
2	1	500	400	200	405	233	70	320	70	NSYTX4020
		600	400	200	405	233	70	320	70	NSYTX4020
			600	250	605	283	70	520	120	NSYTX6025
*	2	600	1000	300	1005	333	70	920	170	NSYTX10030
			1200	300	1205	333	70	1120	120	NSYTX12030
2	1	700	500	250	505	283	70	420	120	NSYTX5025
		800	600	250	605	283	70	520	120	NSYTX6025
			800	300	805	333	70	720	170	NSYTX8030
*	2	800	1000	300	1005	333	70	920	170	NSYTX10030
			1200	300	1205	333	70	1120	120	NSYTX12030
2	1	1000	800	300	805	333	70	720	170	NSYTX8030
*	2	1000	1000	300	1005	333	70	920	170	NSYTX10030
2	1	1200	800	300	805	333	70	720	170	NSYTX8030
*	2	1200	1000	300	1005	333	70	920	170	NSYTX10030

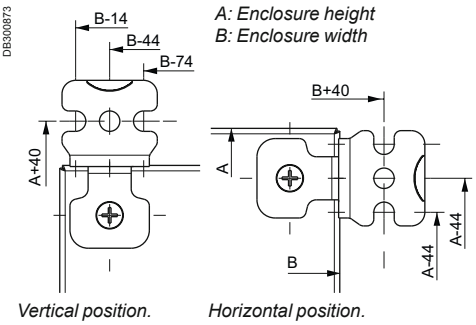


** Three-point locking system.*



Wall-fixing lugs

Material	304L stainless-steel	316L stainless-steel
Installation	■ Mounting of the wall-fixing lugs in horizontal or vertical position ■ Fixing from the outside	
Maximum load	250 kg	
Supply	Set of four wall-fixing lugs	
References		
	NSYPFCX	**NSYPFC2X**



Vertical position. *Horizontal position.*

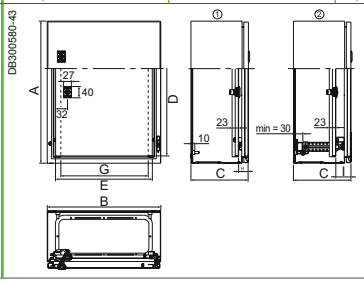
Stainless-steel wall-mounting enclosures
Accessories



Inner door

	■ 3-mm double-bar lock. ■ Not compatible with door retainer and door switch. Consult us.
Installation	■ As standard it can be mounted an inner door and a mounting plate, on the step slides, at the same time ■ Can be mounted either on the front side of the enclosure or on step slides (not suplied with standard)
Maximum load	30 kg/m²
Supply	1 inner door

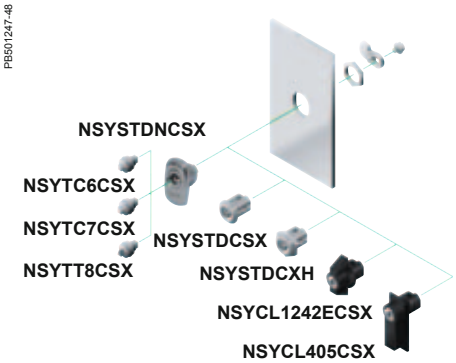
For wall-mounting enclosures (mm)		Dimensions (mm)					References
Height (A)	Width (B)	D	E	G	H	I (min.)	
400	300	349	241	208	32	51	**NSYPIN43**
500	400	449	341	308	32	51	**NSYPIN54**
600	400	549	341	308	32	51	**NSYPIN64**
700	500	649	441	408	32	51	**NSYPIN75**
800	600	749	541	508	32	51	**NSYPIN86***
1000	800	949	741	708	32	51	**NSYPIN108***
1200	800	1149	741	708	32	52	**NSYPIN128***



① *NSYPIN inner door fixed directly to the enclosure.*

② *NSYPIN inner door fixed to the adjustable NSYSDCR●● support. In this case, both the inner door and the mounting plate may be depth adjustable.*

** Equipped with welded vertical profiles in order to facilitate cable management.*

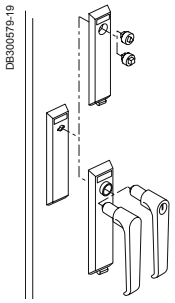






Escutcheon

Type	Double-bar lock			Insert			Handle lock				
	Standard	Round		Triangular	Square		1242E	405	610 New	Handle lock	Screw driver insert
	3 mm	3 mm (spare)	3 mm	8 mm	7 mm	6 mm					
Material	Chrome-plated zamak		100 % stainless-steel				Chrome-plated zamak	Polyamide		100 % stainless-steel	zamak
Protection rating	IP66										
References											
	NSYSTDNCSX	**NSYSTDCSX**	**NSYSTDCXH**	**NSYTT8CSX**	**NSYTC7CSX**	**NSYTC6CSX**	**NSYCL1242ECSX**	**NSYCL405CSX**	**NSYCL610CSX**	**NSYTSML**	**NSYTSMLS3D**



For the closures of double-door enclosures, contact us.

Stainless-steel floor-standing enclosures

Stainless-steel floor-standing enclosures
Contents


PB500138-26


PB502731-22

Spacial SMX - SFX **130**
Stainless-steel floor-standing enclosures

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Dimensions 132
Specific accessories 134

Stainless-steel floor-standing enclosures
Introduction

> These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

SMX

PB500138-63



SFX

PB502730-50



PB501232-36

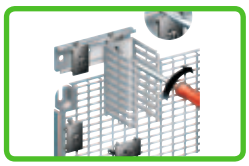


Material and finishes

Stainless-steel grade:
- AISI 304L and 316L as standard (Spacial SMX).
- AISI 316L (on request) (Spacial SFX).

Finishes:
- Scotch-Brite® brushed (standard).
- Micro-beaded (on request).
- Painted (on request).

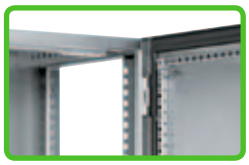
PB500958-20



Convenience and time saving

- Complete range of accessories for installation, cable management, etc.
- 316L stainless-steel plinth: easy cable entry (Spacial SMX).
- 304L or 316L stainless-steel plinth: easy cable entry (Spacial SFX).
- Reversible door opening to 120°.
- Padlock lock with key or form insert.
- Adjustment rails perforated with a pitch of 25 mm.
- Perforated reinforcement frame allowing accessories to be mounted on the door.

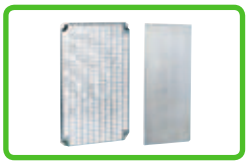
PB500141-90



Sealing

- Protection rating of IP55 (IEC 60529): complete protection against dust and water sprays.
- 3-point closures.
- Canopy (optional):
  - protects the sealing plane of the door,
  - guarantees correct water drainage,
  - no stagnation on the top.
- Single-piece cable-gland plate with polyurethane gasket.

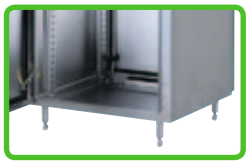
PB501255-20



Compatible with the other ranges

- The mounting plates and other accessories of the Spacial SM and SF standards metal offers.

PB501228-85



Hygiene

- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.

PB501241-40



Robustness and durability

- Resistance to external mechanical impacts: IK10 according to IEC 62262.
- 3 hinges made entirely from stainless-steel.
- Door reinforcement frame.

PB501232-36



Resistance to corrosion

- High resistance to corrosion. 304L and 316L stainless-steels provide the best solutions for applications in extremely demanding environments.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

Stainless-steel floor-standing enclosures
Characteristics

SMX


PB500138-26

SFX


PB502731-22

Characteristics	Spacial SMX	Spacial SFX
	Stainless-steel sheet floor-standing enclosure, folded and welded.	■ Enclosure made up of a structure, consisting of top and bottom, rear panel and vertical profiles. ■ Single front door, with reinforcement frame. ■ Sash-bolt handle made from painted zamak, 3 mm double bar.
Material	■ 304L stainless-steel ■ 316L stainless-steel	■ 304L stainless-steel ■ 316L version (on request)
Finish	■ Scotch-Brite® brushed finish ■ Micro-beaded and painted finishes (on request)	
Thickness	15/10e mm	-
Ingress protection rating	IP55 according to IEC 60529 (only for 1 door enclosure)	
Mechanical protection rating	IK10 according to IEC 62262	
Standards	IEC 62208	-
Certifications	■ UL 508 ■ CAN/CSA 22 ■ NEMA: □ 1 door enclosure: type 1, 2, 3, 3R, 4, 4X, 5, 12, 12K, 13 □ 2 doors enclosure: type 1, 12, 12K, 13	-
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure	
Other characteristics	■ Plain front door. Opening to left or right to 120° with reinforcement frame installed: □ 3 stainless-steel hinges □ 3-point closure with handle made from painted zamak, 5-mm double bar □ acceptable load of 50 kg	
Supply	■ Welded rear panel ■ Single-piece cable-gland plate delivered ■ Delivered with 4 mounting plate-supporting brackets	■ Welded rear panel ■ 4 mounting plate-supporting brackets ■ Single-piece cable-gland plate with sealing gasket *Note: the panels and plinths can be installed and the enclosures can be assembled (on request)*

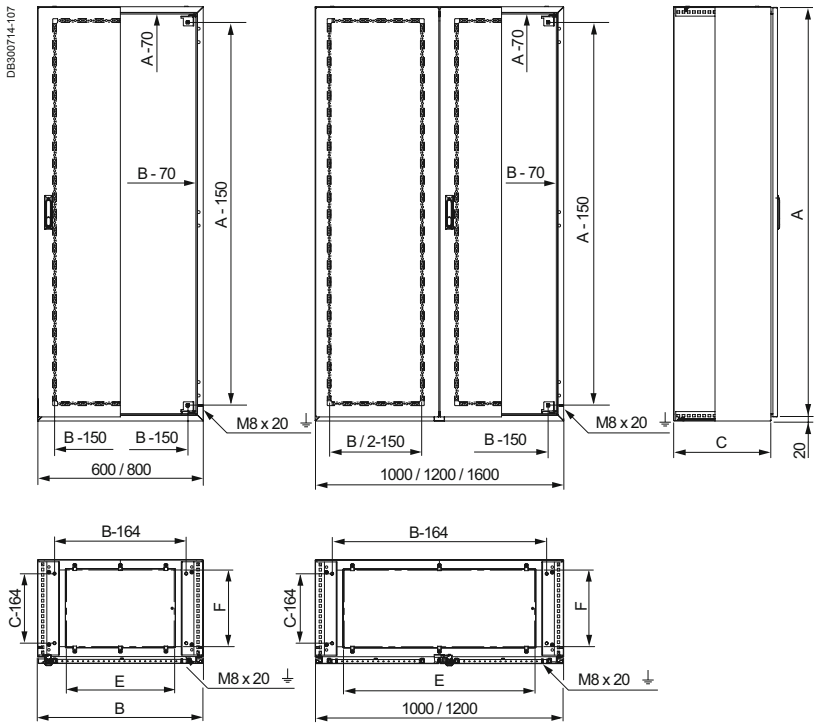
External dimensions (mm)			Number of front doors	Stainless-steel enclosure		Stainless-steel suitable enclosure
Height (A)	Width (B)	Depth (C)		304L	316L	304L
1400	1000	300	2	**NSYSMX141030**	-	-
1600	800	400	1	**NSYSMX16840**	-	-
1800	600	400	1	**NSYSMX18640**	-	**NSYSFX18640**
	800	400	1	**NSYSMX18840**	**NSYSMX18840H**	**NSYSFX18840**
	1200	400	2	**NSYSMX181240**	**NSYSMX181240H**	**NSYSFX181240**
	1600	400	2	**NSYSMX181640**	**NSYSMX181640H**	-
2000	600	500	1	-	-	**NSYSFX20650**
	800	400	1	-	-	**NSYSFX20840**
	800	500	1	**NSYSMX20850**	-	-
	800	600	1	-	-	**NSYSFX20860**
	1000	400	2	**NSYSMX201040**	**NSYSMX201040H**	-
	1000	600	2	-	-	**NSYSFX201060**
	1200	500	2	**NSYSMX201250**	**NSYSMX201250H**	-
	1200	600	2	-	-	**NSYSFX201260**
	1600	600	2	**NSYSMX201660**	**NSYSMX201660H**	-

Stainless-steel floor-standing enclosures

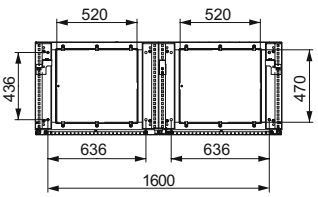
Dimensions

SMX

Floor-standing enclosure dimensions (mm)			No. of cablegland plates	Dimensions (mm)	
Height (A)	Width (B)	Depth (C)		E	F
1400	1000	300	1	720	270
1600	800	400	1	520	270
1800	600	400	1	520	270
	800	400	1	520	270
	1200	400	1	920	270
	1600	400	2	1320	270
2000	800	500	1	520	370
	1000	400	1	720	270
	1200	500	1	920	370
	1600	600	2	1320	470



Enclosure width of 1000 and 1200 mm.

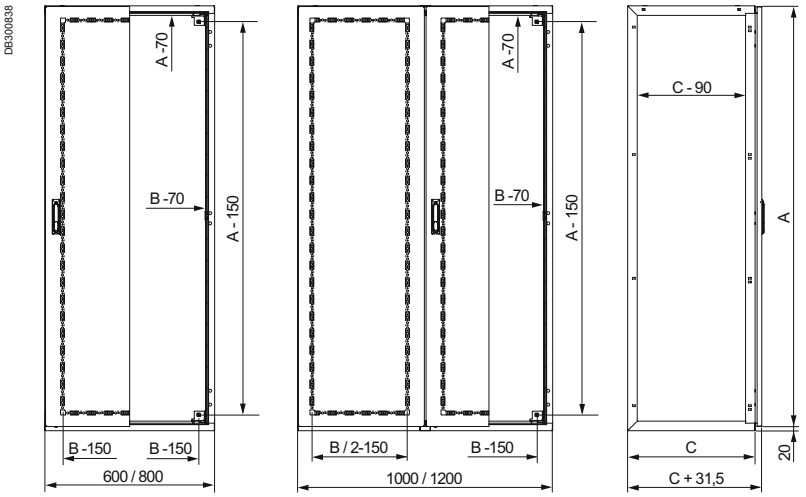


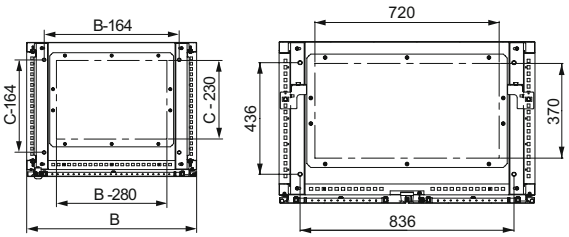
Enclosure width of 1600 mm.

Stainless-steel floor-standing enclosures
Dimensions

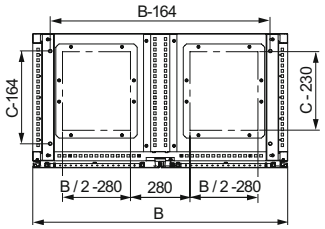
SFX

External dimensions (mm)			Number of front doors
Height (A)	Width (B)	Depth (C)	
1800	600	400	1
	800	400	1
	1200	400	2
2000	600	500	1
	800	400	1
	800	600	1
	1000	600	2
	1200	600	2





Enclosure width 1000.

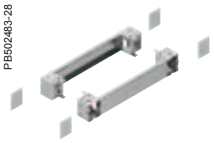


Enclosure width 1200 mm.

Stainless-steel floor-standing enclosures

Specific accessories

SMX



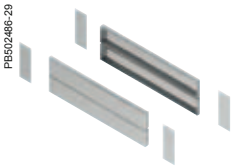
Plinth height 100 mm (4 corners + front and back)



Plinth height 100 mm (Set of 2 side panels)



Plinth height 200 mm (4 corners + front and back)



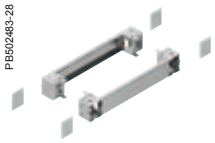
Plinth height 200 mm (Set of 2 side panels)

Characteristics			Stainless-steel plinths							
Material			Stainless-steel, AISI 304L				Stainless-steel, AISI 316L			
Finish			Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion							
Installation			Mounting in the holes for fixing the enclosures to the floor Suitable for steel floor-standing enclosures (SF and SM)							
External dimensions (mm)			**Plinth height 100 mm**		**Plinth height 200 mm**		**Plinth height 100 mm**		**Plinth height 200 mm**	
Height (A)	**Width (B)**	**Depth (C)**	**Kit (4 corners + front and back)**	**Set of 2 side panels**	**Kit (4 corners + front and back)**	**Set of 2 side panels (x2)**	**Kit (4 corners + front and back)**	**Set of 2 side panels**	**Kit (4 corners + front and back)**	**Set of 2 side panels (x2)**
1400	1000	300	**NSYSPFX10100**	**NSYSPSX3100**	**NSYSPFX10200**	**NSYSPSX3200**	**NSYSPFX10100H**	**NSYSPSX3100H**	**NSYSPFX10200H**	**NSYSPSX3200H**
1600	800	400	**NSYSPFX8100**	**NSYSPSX4100**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYSPFX8100H**	**NSYSPSX4100H**	**NSYSPFX8200H**	**NSYSPSX4200H**
1800	600	400	**NSYSPFX6100**	**NSYSPSX4100**	**NSYSPFX6200**	**NSYSPSX4200**	-	**NSYSPSX4100H**	-	**NSYSPSX4200H**
	800	400	**NSYSPFX8100**	**NSYSPSX4100**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYSPFX8100H**	**NSYSPSX4100H**	**NSYSPFX8200H**	**NSYSPSX4200H**
	1200	400	**NSYSPFX12100**	**NSYSPSX4100**	**NSYSPFX12200**	**NSYSPSX4200**	**NSYSPFX12100H**	**NSYSPSX4100H**	**NSYSPFX12200H**	**NSYSPSX4200H**
	1600	400	**NSYSPFX16100**	**NSYSPSX4100**	**NSYSPFX16200**	**NSYSPSX4200**	**NSYSPFX16100H**	**NSYSPSX4100H**	**NSYSPFX16200H**	**NSYSPSX4200H**
2000	600	500	**NSYSPFX6100**	**NSYSPSX5100**	**NSYSPFX6200**	**NSYSPSX5200**	-	**NSYSPSX5100H**	-	**NSYSPSX5200H**
	800	400	**NSYSPFX8100**	**NSYSPSX4100**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYSPFX8100H**	**NSYSPSX4100H**	**NSYSPFX8200H**	**NSYSPSX4200H**
	800	500	**NSYSPFX8100**	**NSYSPSX5100**	**NSYSPFX8200**	**NSYSPSX5200**	**NSYSPFX8100H**	**NSYSPSX5100H**	**NSYSPFX8200H**	**NSYSPSX5200H**
	800	600	**NSYSPFX8100**	**NSYSPSX6100**	**NSYSPFX8200**	**NSYSPSX6200**	**NSYSPFX8100H**	**NSYSPSX6100H**	**NSYSPFX8200H**	**NSYSPSX6200H**
	1000	400	**NSYSPFX10100**	**NSYSPSX4100**	**NSYSPFX10200**	**NSYSPSX4200**	**NSYSPFX10100H**	**NSYSPSX4100H**	**NSYSPFX10200H**	**NSYSPSX4200H**
	1000	600	**NSYSPFX10100**	**NSYSPSX6100**	**NSYSPFX10200**	**NSYSPSX6200**	**NSYSPFX10100H**	**NSYSPSX6100H**	**NSYSPFX10200H**	**NSYSPSX6200H**
	1200	500	**NSYSPFX12100**	**NSYSPSX5100**	**NSYSPFX12200**	**NSYSPSX5200**	**NSYSPFX12100H**	**NSYSPSX5100H**	**NSYSPFX12200H**	**NSYSPSX5200H**
	1200	600	**NSYSPFX12100**	**NSYSPSX6100**	**NSYSPFX12200**	**NSYSPSX6200**	**NSYSPFX12100H**	**NSYSPSX6100H**	**NSYSPFX12200H**	**NSYSPSX6200H**
	1600	600	**NSYSPFX16100**	**NSYSPSX6100**	**NSYSPFX16200**	**NSYSPSX6200**	**NSYSPFX16100H**	**NSYSPSX6100H**	**NSYSPFX16200H**	**NSYSPSX6200H**

The ventilated plinths in stainless steel 200 mm of Outdoor Heavy Duty enclosures (page 373) are compatible with the stainless steel monobloc and suitable enclosures.

Stainless-steel floor-standing enclosures
Specific accessories

SFX



Plinth height 100 mm (4 corners + front and back)



Plinth height 100 mm (Set of 2 side panels)

Characteristics			Stainless-steel plinths			
Material			Stainless-steel, AISI 304L			
Finish			Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion			
Installation			Mounting in the holes for fixing the enclosures to the floor Suitable for steel floor-standing enclosures (SF and SM)			
External dimensions (mm)			**Plinth height 100 mm**		**Socles hauteur 200 mm**	
Height (A)	**Width (B)**	**Depth (C)**	**Kit (4 corners + front and back)**	**Set of 2 side panels**	**Kit (4 corners + front and back)**	**Set of 2 side panels (x2)**
1400	1000	300	**NSYSPFX10100**	-	**NSYSPFX10200**	-
1600	800	400	**NSYSPFX8100**	**NSYSPSX4100SF**	**NSYSPFX8200**	**NSYSPSX4200SF**
1800	600	400	**NSYSPFX6100**	**NSYSPSX4100SF**	**NSYSPFX6200**	**NSYSPSX4200SF**
	800	400	**NSYSPFX8100**	**NSYSPSX4100SF**	**NSYSPFX8200**	**NSYSPSX4200SF**
	1200	400	**NSYSPFX12100**	**NSYSPSX4100SF**	**NSYSPFX12200**	**NSYSPSX4200SF**
	1600	400	-	**NSYSPSX4100SF**	-	**NSYSPSX4200SF**
2000	600	500	**NSYSPFX6100**	**NSYSPSX5100SF**	**NSYSPFX6200**	**NSYSPSX5200SF**
	800	400	**NSYSPFX8100**	**NSYSPSX4100SF**	**NSYSPFX8200**	**NSYSPSX4200SF**
	800	500	**NSYSPFX8100**	**NSYSPSX5100SF**	**NSYSPFX8200**	**NSYSPSX5200SF**
	800	600	**NSYSPFX8100**	**NSYSPSX6100SF**	**NSYSPFX8200**	**NSYSPSX6200SF**
	1000	400	**NSYSPFX10100**	**NSYSPSX4100SF**	**NSYSPFX10200**	**NSYSPSX4200SF**
	1000	600	**NSYSPFX10100**	**NSYSPSX6100SF**	**NSYSPFX10200**	**NSYSPSX6200SF**
	1200	500	**NSYSPFX12100**	**NSYSPSX5100SF**	**NSYSPFX12200**	**NSYSPSX5200SF**
	1200	600	**NSYSPFX12100**	**NSYSPSX6100SF**	**NSYSPFX12200**	**NSYSPSX6200SF**
	1600	600	-	**NSYSPSX6100SF**	-	**NSYSPSX6200SF**

The ventilated plinths in stainless steel 200 mm of Outdoor Heavy Duty enclosures (page 373) are compatible with the stainless steel monobloc and suitable enclosures.

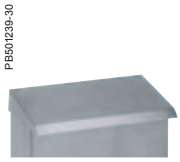
Stainless-steel floor-standing enclosures

Specific accessories

SMX



SFX



Characteristics			Canopy	
			Guarantees very high protection of the enclosure when used outdoors.	
Material			■ 304L stainless-steel sheet ■ Other types of stainless-steel, contact us	
Finish			■ Scotch-Brite® brushed ■ Other finishes, contact us	
Thickness			15/10e mm	
Installation			It is fixed in the same holes as the eyebolt. Delivered with fixings. Other dimensions and canopy for sets, contact us	
External dimensions (mm)			**Top-mounting**	
Height (A)	**Width (B)**	**Depth (C)**		
1400	1000	300	**NSYSCX10030**	-
1600	800	400	**NSYSCX8040**	-
1800	600	400	**NSYSCX6040**	**NSYSCX6040**
	800	400	**NSYSCX8040**	**NSYSCX8040**
	1200	400	**NSYSCX12040**	**NSYSCX12040**
	1600	400	**NSYSCX16040**	-
2000	600	500	-	**NSYSCX6050**
	800	400	-	**NSYSCX8040**
	800	500	**NSYSCX8050**	-
	800	600	-	**NSYSCX8060**
	1000	400	**NSYSCX10040**	-
	1000	600	-	**NSYSCX10060**
	1200	500	**NSYSCX12050**	-
	1200	600	-	**NSYSCX12060**
	1600	600	**NSYSCX16060**	-





Characteristics	Closure option										
	Spare handle.	5 mm double-bar insert.	Square insert. 6 mm	Square insert. 7 mm	Square insert. 8 mm	Triangular insert. 6.5 mm	Triangular insert. 8 mm	Padlocking device.	Barrel and key 405E.	Barrel and key 610. New	Barrel and key 1242E.
Material	■ The enclosures are delivered as standard with handle made from painted zamak, 5 mm double bar (1242E, 405E, 6.5 mm triangle available) ■ Large range of standard inserts available										
Supply	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack
References											
	NSYMCSX	**NSYTDB5ME**	**NSYTC6ME**	**NSYTC7ME**	**NSYTC8ME**	**NSYTT6ME**	**NSYTT8ME**	**NSYBCME**	**NSYTCL405ME**	**NSYTCL610ME**	**NSYTL1242EME**





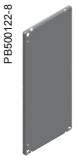
	Door switch
	For Spacial SFX
See page	295
Supply	1
Reference	
	NSYDCM20

Stainless-steel floor-standing enclosures
Specific accessories

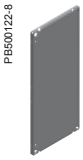
SFX


PB500142-7

SMX


PB500122-8

SFX


PB500122-8

SMX


PB500482-9


PB500483-13

SFX


PB500482-9

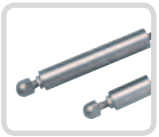

PB500483

Characteristics			Side panels	Plain mounting plate		Uprights vertical			
			■ Side panels including a polyurethane sealing gasket. ■ Their special design guarantees the protection of the door gasket.	-	-	-		-	
Material			■ 304L stainless-steel sheet	-	-	-		-	
External dimensions (mm)						**Standard**	**Technical**	**Standard**	**Technical**
Height (A)	**Width (B)**	**Depth (C)**							
1400	1000	300	-	**NSYMP1410**	-	-	**NSYTVR14**	-	-
1600	800	400	-	**NSYMP168**	-	-	**NSYTVR16**	-	-
1800	600	400	**NSY2SPX184**	**NSYMP186**	**NSYMP186**	**NSYVR18**	**NSYTVR18**	**NSYVR18**	**NSYVR18**
	800	400	**NSY2SPX184**	**NSYMP188**	**NSYMP188**	**NSYVR18**	**NSYTVR18**	**NSYVR18**	**NSYVR18**
	1200	400	**NSY2SPX184**	**NSYMP1812**	**NSYMP1812**	**NSYVR18**	**NSYTVR18**	**NSYVR18**	**NSYVR18**
	1600	400	-	**NSYMP1816**	-	**NSYVR18**	**NSYTVR18**	-	-
2000	600	500	**NSY2SPX205**	-	**NSYMP206**	-	-	**NSYVR20**	**NSYVR20**
	800	400	**NSY2SPX204**	-	**NSYMP208**	-	-	**NSYVR20**	**NSYVR20**
	800	500	**NSY2SPX205**	**NSYMP208**	-	**NSYVR20**	**NSYTVR20**	-	-
	800	600	**NSY2SPX206**	-	**NSYMP208**	-	-	**NSYVR20**	**NSYVR20**
	1000	400	-	**NSYMP2010**	-	**NSYVR20**	**NSYTVR20**	-	-
	1000	600	**NSY2SPX206**	-	**NSYMP2010**	-	-	**NSYVR20**	**NSYVR20**
	1200	500	-	**NSYMP2012**	-	**NSYVR20**	**NSYTVR20**	-	-
	1200	600	**NSY2SPX206**	-	**NSYMP2012**	-	-	**NSYVR20**	**NSYVR20**
	1600	600	-	**NSYMP2016**	-	**NSYVR20**	**NSYTVR20**	-	-


PB501257-19


PB501262-35


PB501242-24

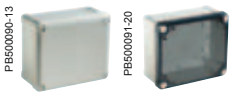

PB500220-19


PB502972-20

Characteristics	Eyebolts	Lifting bracket	Wall-fixing lugs	Hygienic feet	Coupling kit
	-	For SFX.	For SMX.	Recommended for applications that require special hygiene conditions.	For SFX. Used for joining enclosures side by side.
Material	Treated moulded steel	Treated steel	304L stainless-steel	316L stainless-steel	■ Flat connectors and brackets: zinc-coated steel ■ Sealing gasket: EPDM
Ingress protection rating	-	-	-	-	IP55
Installation	It is fixed using fixing nuts supplied with the enclosure	They are fixed instead of the eyebolts on two suitable enclosures side-by-side, guaranteeing the rigidity of the enclosure when lifted	■ Mounting of the wall-fixing lugs in horizontal or vertical position ■ Fixing from the outside	Adjustable between 140 mm and 200 mm height	Fixing from the inside of the enclosures
Maximum load	830 kg when slinging at 60°	2000 kg when slinging at 60°	■ Horizontal: 180 kg ■ Vertical: 350 kg	Per foot: 100 kg	-
Supply	Set of four M12 eyebolts	Set of four lifting brackets	Set of four wall-fixing lugs	Set of 4 adjustable feet	-
References					
	NSYSMEB	**NSYPUNX**	**NSYFCMX**	**NSYPHX200**	**NSYSFBK19 + NSYSFXJG**

Insulating boxes

Insulating boxes
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Insulating industrial boxes

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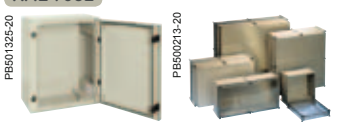
Thalassa PLS **154**
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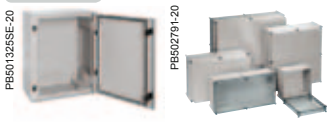
New

Early 2016, the PLS range changes color

RAL 7032



RAL 7035



> **Why change?**
To harmonize the Schneider Electric Universal enclosures offer.
Answer to customer requests and to the the market trends.

> **What happen with the part numbers (references)?**
Every product that have changed in colour have also changed the part umber. It is done just adding a letter "G" at the end on reference. *Example:*

RAL 7032	RAL 7035
NSYPLM43	NSYPLM43G

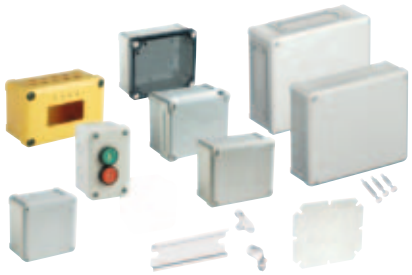
> **How can I obtain RAL 7032 enclosures?**
Consult us.

> **Will the new RAL 7035 colour offer the same properties as RAL 7032?**
Yes, all mechanical properties will be the same. The light reflexion is even improved.

Insulating industrial boxes
Introduction

> Insulating industrial boxes:
- ABS for conventional applications (IK07) with the usual constraints,
- polycarbonate for enhanced impact resistance (IK08) and for outdoor applications or applications directly exposed to UV,
- polycarbonate certified UL,
- IP55 rating for all ranges,
- Protection against electrical impacts Class II.

PB500244SE-55



PB500271-32



Easy to install
3 methods of fixing the box to its support.

PB502073-72



Easy to use
Only one tool is required: a flat screwdriver.

PB500091



Smart
Fixing studs on the cover.

This range can be configured according to your needs

4 differents services available:

Assemble to order

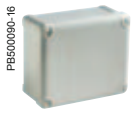
Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

Insulating industrial boxes
Characteristics







Characteristics	Universal boxes with IP66	Equipped button boxes, in ABS with IP54	ABS boxes for buttons, to be equipped
	■ Boxes that can be coupled (exactly the same dimensions) with kit ref. **13934**. ■ Locks from box size of 116 x 116 x 62 mm: □ cover locking by 4 plastic captive screws with coarse thread outside the sealed area, □ plumbable lock. ■ Locks from box size of 138 x 93 x 72 mm: □ the standard screws (flat screwdriver) can be replaced with other standardised screws (page 148). ■ The 4 "legs" of the cover ensure its robustness and perfect support during customisation operations. ■ Adaptable hinges on all the 20- and 40-mm covers (page 150).		
Material	■ **ABS boxes:** □ glow wire resistance: 650°C according to IEC 60695-2-11 □ usage temperature: -25°C...+60°C □ installation temperature: -15 C...+40°C ■ **Polycarbonate boxes:** □ glow wire resistance: 960°C □ usage temperature: -25°C...+80°C □ installation temperature: -15°C...+60°C	■ **ABS boxes:** □ glow wire resistance: 650°C according to IEC 60695-2-11 □ usage temperature: -25°C...+60°C □ installation temperature: -15 C...+40°C	
Colour	■ Body: RAL 7035 grey ■ Cover: RAL 7035 grey or tinted transparent		
Ingress protection rating	IP66	IP54	-
Mechanical protection rating	**ABS:** IK07 (2J) according to IEC 62262 **Polycarbonate:** IK08 (2J) according to IEC 62262	**ABS:** IK07 (2J) according to IEC 62262	
Standards	IEC 62208		
Certifications	■ IEC 62208 certified by TÜV ■ SEMKO, DEMKO ■ UL 508A: polycarbonate range ■ Product Environmental Profile ■ NEMA 4.4X according to NEMA 250 ■ Class II according to IEC 61140 ■ Self-extinguishing: UL 94 V-0	■ IEC 62208 certified by TÜV ■ SEMKO, DEMKO ■ UL 508A: polycarbonate range ■ Product Environmental Profile ■ NEMA 4.4X according to NEMA 250 ■ Class II according to IEC 61140	
Installation	**Fixing the box** ■ Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 x 93 x 72 mm ■ Through the rear of the box by 2 or 4 elongated holes to be perforated ■ With fixing lugs from box size of 116 x 116 x 62 mm (ref. **NSYAEFTB**) **Outdoor installation:** compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure **Equipment installation** ■ Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4-mm self-tapping screw (ref. **NSYAMFSTB**, screw Ø 4 x 10 mm with Pozidriv and slotted head) ■ Option of installing rails, plates (page 151) or other types of supports (card, etc.) ■ Spacers and stand-offs to be installed on the studs, for adjusting the height of the equipment		
Other characteristics	■ Thermal dissipation: □ use a suitable calculation method according to IEC 60890 □ anti-condensation valves available as an accessory, prevent the build-up of moisture inside the box	■ Thermal dissipation: □ use a suitable calculation method according to IEC 60890 □ anti-condensation valves available as an accessory, prevent the build-up of moisture inside the box	

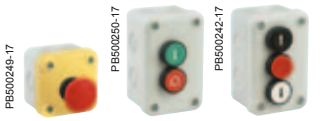
Insulating industrial boxes
Selection guide





Overall external dimensions			Overall internal dimensions			Body	Cover	Minor pack.	Cover screw	Universal boxes with IP66			
(mm)			(mm)			(mm)	(mm)			ABS IP66 IK07		PC-UL IP66 IK08	
Height	Width	Depth	Height	Width	Depth					Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	5	Metal	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	5	Metal	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	5	Metal	NSYTBS1176	-	NSYTBP1176	-
		94	105	65	85	45	40	3	Metal	NSYTBS1179H	-	-	-
	116	62	105	105	55	45	10	5	Plastic	NSYTBS11116	-	NSYTBP11116	-
		133	105	105	125	45	80	2	Plastic	NSYTBS111113H	-	-	-
138	93	72	125	80	65	45	20	2	Plastic	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	2	Plastic	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	2	Plastic	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
		105	175	105	100	60	40	2	Plastic	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
	164	87	175	150	80	60	20	1	Plastic	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
		105	175	150	100	60	40	1	Plastic	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	1	Plastic	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
		107	225	175	100	80	20	1	Plastic	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
		107	225	175	100	60	40	1	Plastic	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
		127	225	175	120	80	40	1	Plastic	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	1	Plastic	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
		128	275	225	120	100	20	1	Plastic	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
		128	275	225	120	60	60	1	Plastic	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
		168	275	225	160	100	60	1	Plastic	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	1	Plastic	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
		168	325	275	160	100	60	1	Plastic	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

Insulating industrial boxes
Selection guide



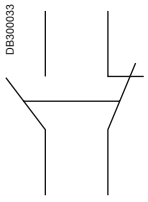


Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Boxes equipped with IP54 ABS buttons		ABS button boxes, to be equipped		
Height	Width	Depth	Height	Width	Depth				Function	References	No. of holes	Cover	References
74	74	83	-	-	-	-	-	1	Emergency switching off	**XALEK1702** (1)	-	-	-
116	74	62	105	65	55	45	10	5	-	-	2	Grey	**XALE2**
		62	105	65	55	45	10	5	-	-	3	Grey	**XALE3**
		75	-	-	-	-	-	1	Start / stop	**XALE2141**	-	-	-
		75	-	-	-	-	-	1	Up / down / stop	**XALE3255**	-	-	-

*(1) Ref. **XALEK1702** houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.*

Button description

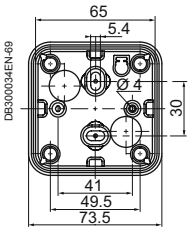
- Emergency switching off function with a red, Ø 40 mm, "turn to unlock" palm button.
- Start / Stop function with 2 push buttons.
- Up / Down / Stop function with 3 push buttons.
- Technical features of the switches:
  - "NC" switch with positive opening manoeuvre according to IEC 60947-5-1 appendix K,
  - mechanical durability of the emergency switch: 0.1 million cycles,
  - mechanical durability of the "NC" and "NO" switches: 5 million cycles,
  - protection against short circuits: 10 A.

Function	Type			
	"NO"	"NC"	"C / O"	Type of push
Emergency switching off	1	1	-	Latching, red
Start/stop				
Start	1	-	-	Flush, green
Stop	-	1	-	Projecting, red
Up / down / stop				
Up	-	-	1	Flush, black
Down	-	-	1	Flush, white
Stop	-	1	-	Projecting, red
				

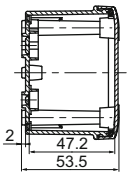
Insulating industrial boxes
Dimensions

Box of 74 x 74 x 54 mm (external dimensions) NSYTB...775

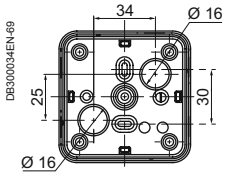
Interior



Side

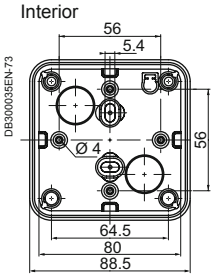


Rear

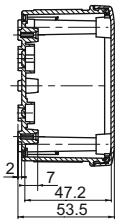


Box of 89 x 89 x 54 mm (external dimensions) NSYTB...885

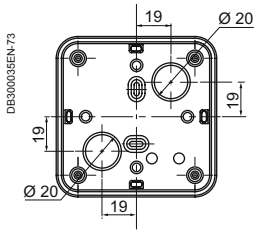
Interior



Side

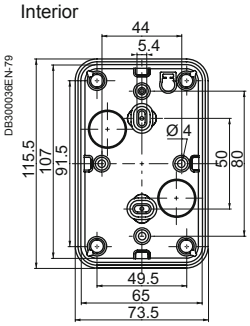


Rear

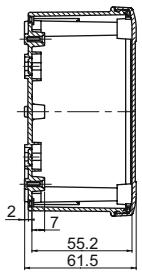


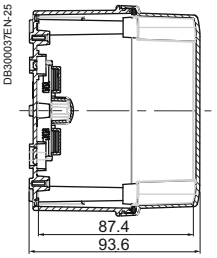
Box of 116 x 74 x 62 or 94 mm (external dimensions) NSYTB...1176 or NSYTB...1179

Interior

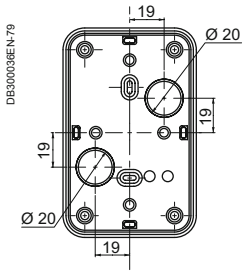


Side



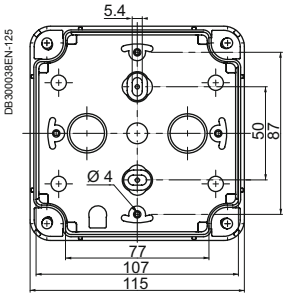


Rear

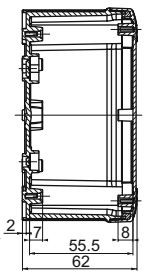


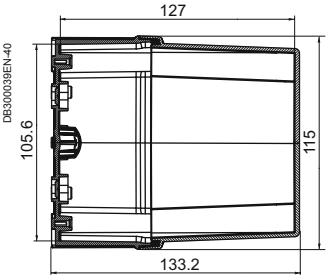
Box of 116 x 116 x 62 or 133 mm (external dimensions) NSYTB...11116 or NSYTB...111113

Interior

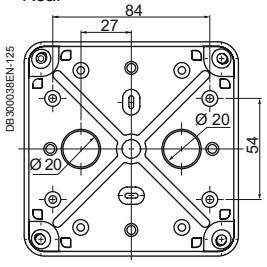


Side

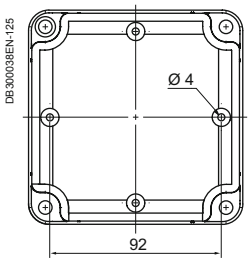




Rear

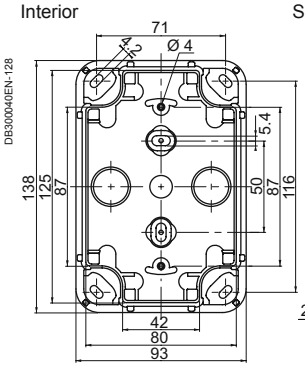


Cover

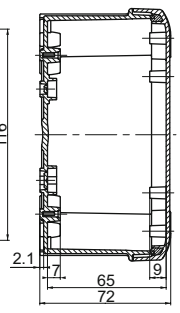


Box of 138 x 93 x 72 mm (external dimensions) NSYTB...1397

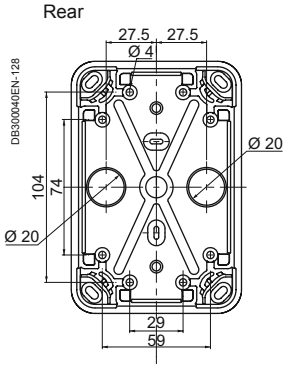
Interior



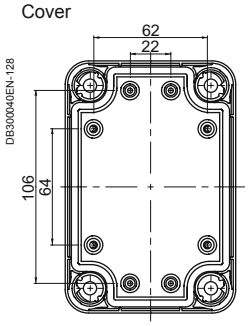
Side



Rear



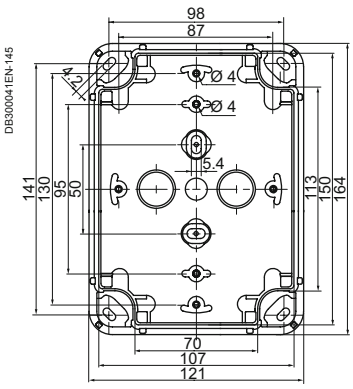
Cover



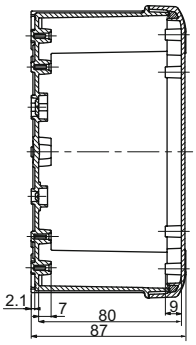
Insulating industrial boxes
Dimensions

Box of 164 x 121 x 87 mm (external dimensions) NSYTB...16128

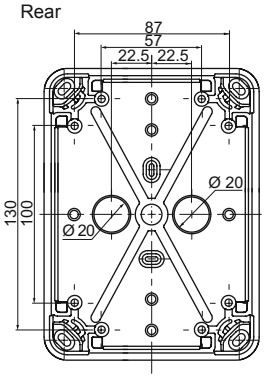
Interior



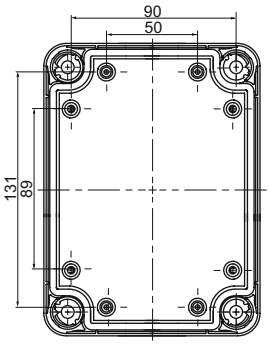
Side



Rear

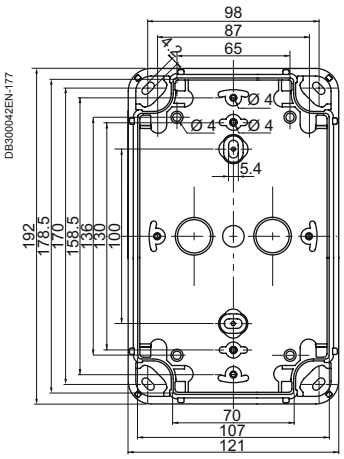


Cover

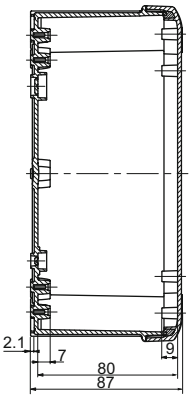


Box of 192 x 121 x 87 or 105 mm (external dimensions) NSYTB...19128 or NSYTB...191210

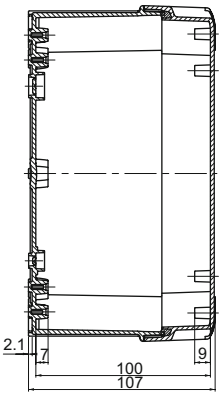
Interior



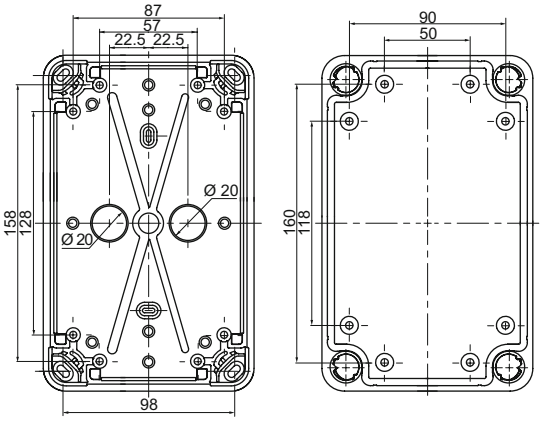
Side
Height 80 mm
(60 + 20)



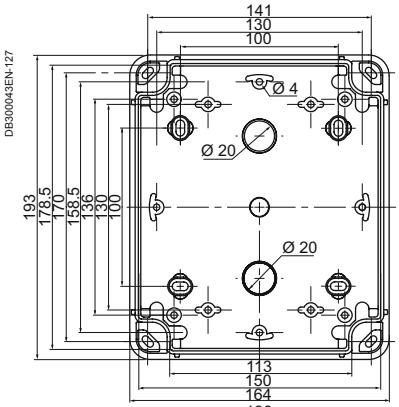
Rear
Height 100 mm
(60 + 40)



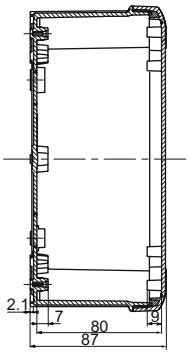
Cover



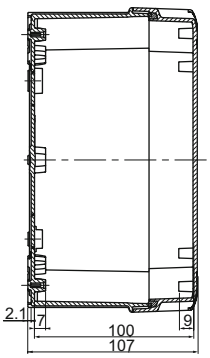
Box of 192 x 164 x 87 or 105 mm (external dimensions) NSYTB...19168 or NSYTB...191610

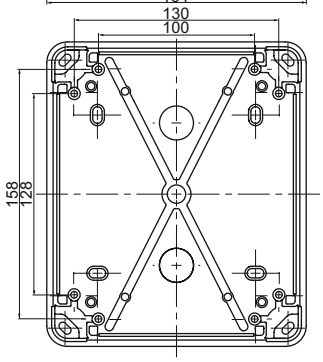


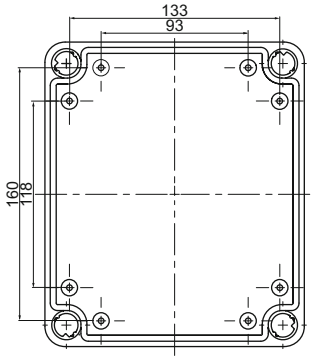
Height 80 mm
(60 + 20)



Height 100 mm
(60 + 40)

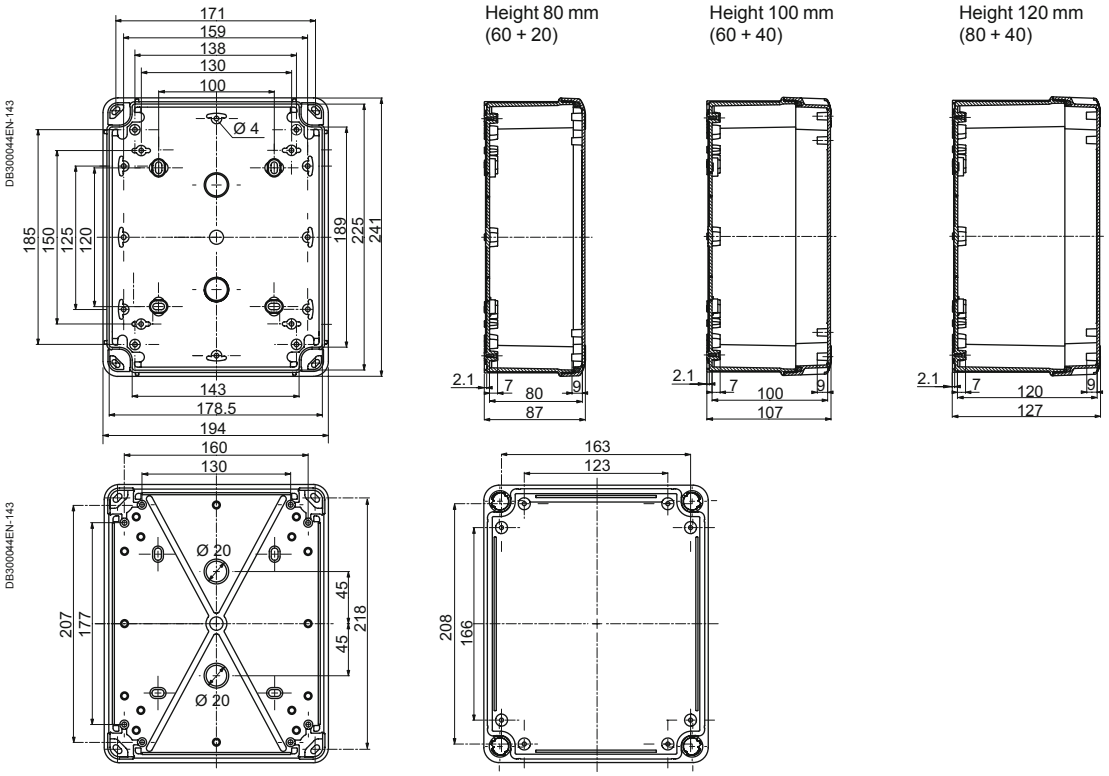




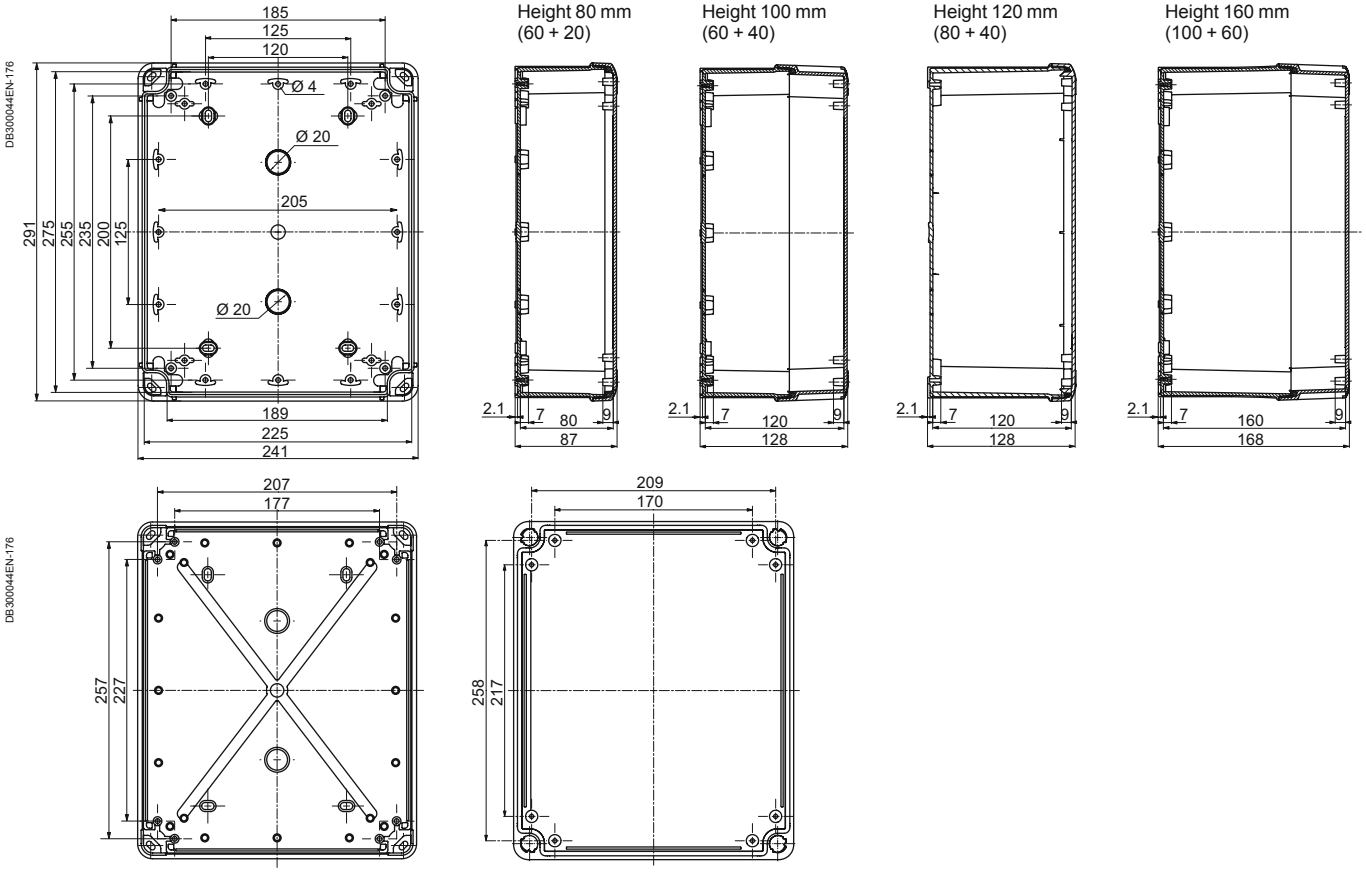


Insulating industrial boxes
Dimensions

Box of 241 x 194 x 87, 107 or 127 mm (external dimensions) NSYTB...24198, NSYTB...241910 or NSYTB...241912

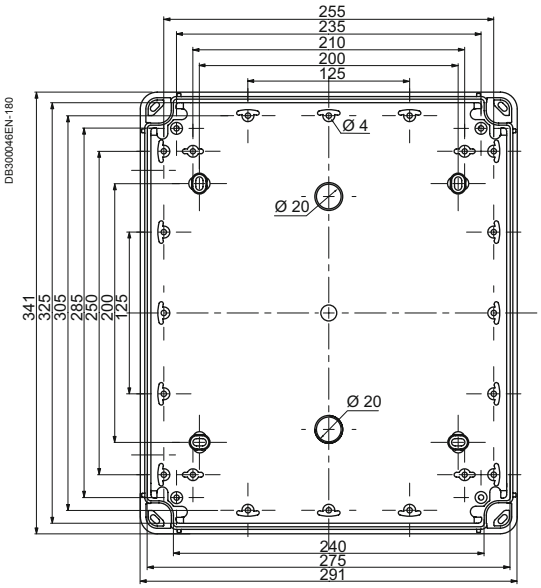


Box of 291 x 241 x 88, 128 or 168 mm (external dimensions) NSYTB...29248, NSYTB...292412 or NSYTB...292416

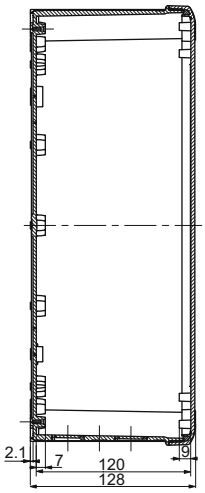


Insulating industrial boxes
Dimensions

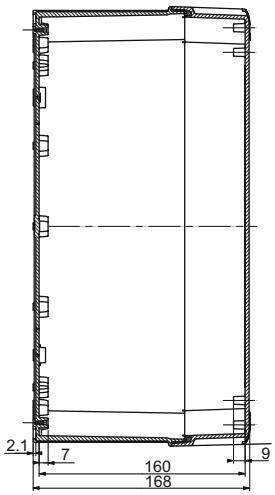
Box of 341 x 291 x 128 or 168 mm (external dimensions) NSYTB...342912 or NSYTB...342916

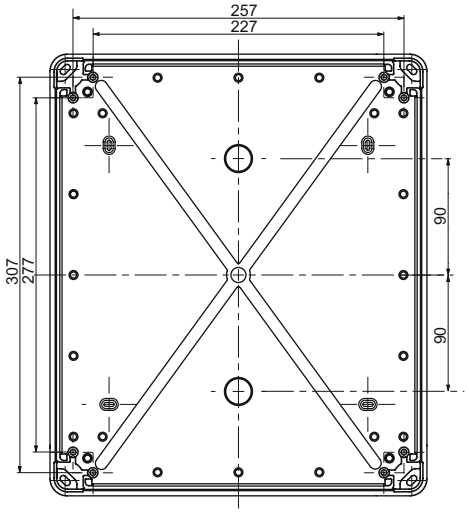


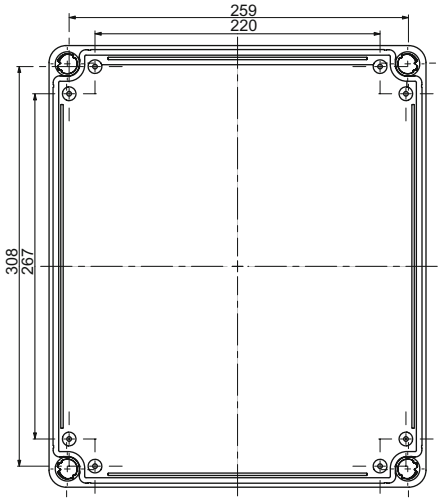
Height 120 mm
(80 + 40)



Height 160 mm
(100 + 60)

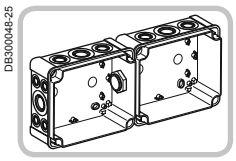






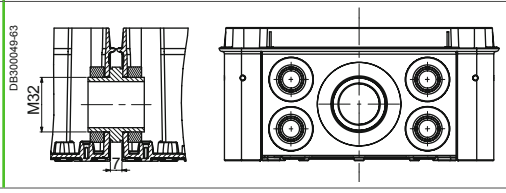
Insulating industrial boxes
Specific accessories







Characteristics		Coupling kit	Sealed anti-condensation valve		
		The coupling kit allows you to join several boxes with dimensions from 138 x 93 mm.	Controls the pressure to avoid condensation following an internal temperature increase. **Applications** Protection of equipment for luminaires, industrial control, transportation, pumps, etc.		
Material		Polystyrene 650°	PA6-V2, acrylic co-polymer membrane, water and oil repellent		
Ingress protection rating		IP66	IP68		
Installation		The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled	The valve is installed by drilling a hole with Ø 12 mm in the box		
Usage temperature		-	-40...+105°C		
Supply		The kit consists of 2 linking parts, nuts and seals	10 valves, nuts and seals		
Drill Ø	**Minor pack.**	**Reference**	**Permeability (1)**	**Pressure difference (2)**	**References**
32 mm	1	**13934**	-	-	-
M12	10	-	16 litres/h	ΔP < 1 bar	**NSYCAG12LPH1**
M12	10	-	120 litres/h	ΔP < 0.1 bar	**NSYCAG12LPH2**

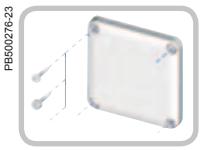


(1) Air flow under ΔP = 0.7 bar.
(2) Condition for IP68.

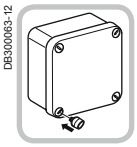
Cover accessories



Triangle *Double bar*





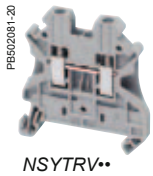


Characteristics			Set of 4 shape screws			Pack of 4 handles
			■ The Thalassa boxes are delivered as standard with slotted-head screws for flat screwdrivers from 4 to 5.5 mm. ■ With box sizes from 138 x 93 x 72 mm, these screws can be replaced for screws with different standardised heads, to comply with most cases. ■ After removing the standard screw, simply position the new screw by pressing on it. ■ The adapter clips (intermediate parts for tightening the cover on the body of the box) are the same as those for the standard screws. They are not delivered with the shape screws (see drawing on page 150). ■ A single key for opening the boxes as well as the other enclosures of your installation.			■ The handle (or thumbwheel) allows the screws to be handled without any tools. It is ideally associated with a box equipped with hinges. ■ It snaps onto the head of the standard plastic screw.
Type		**Minor pack.**	**Height of the lid (mm)**			
			20	**40**	**60**	
Triangle	6.5 mm	1	**NSYAEDST620TB** (1)	-	-	-
	8 mm	1	**NSYAEDST820TB**	-	-	-
Double bar	3 mm	1	**NSYAEDSB320TB**	-	-	-
	5 mm	1	**NSYAEDSB520TB**	-	-	-
Spare standard plastic screw		1	**NSYAEDS20TB**	**NSYAEDS40TB**	**NSYAEDS60TB**	-
Pack of 4 handles		1	-	-	-	**NSYAEDKTB**

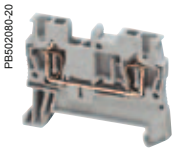
(1) CNOMO.

Insulating industrial boxes
Specific accessories

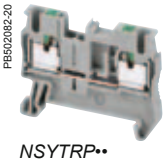
Terminal blocks



NSYTRV••

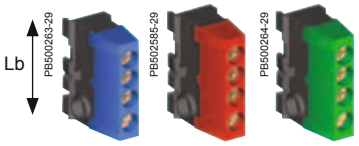


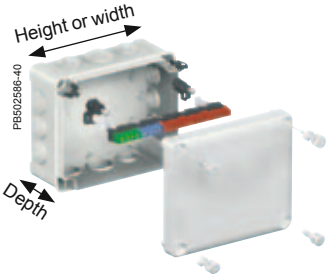
NSYTRR••



NSYTRP••

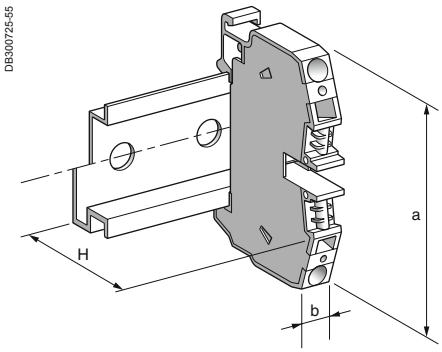
Characteristics	DIN rail terminal blocks								
	■ The new Linergy TR terminal blocks have 3 types of connections: screw, spring or "push-in" and they can be mounted on a DIN rail. ■ Connection capacity from 1.5 mm² up to 150 mm². ■ Available in grey, blue, orange, red, green, black or white color.								
Minor pack.	50								
Type	**Screw connection**				**Spring connection**				**"Push-in" connection**
	H (mm)	**W (mm)**	**D (mm)**	**References**	**H (mm)**	**W (mm)**	**D (mm)**	**References**	**References**
Passthrough, 2.5 mm², grey	47.7	5.2	47.5	**NSYTRV22**	36.5	5.2	48.5	**NSYTRR22**	**NSYTRP22**
Passthrough, 2.5 mm², blue	47.7	5.2	47.5	**NSYTRV22BL**	36.5	5.2	48.5	**NSYTRR22BL**	**NSYTRP22BL**
Protective earth, 2.5 mm²	47.7	5.2	47.5	**NSYTRV22PE**	36.5	5.2	48.5	**NSYTRR22PE**	**NSYTRP22PE**
Passthrough, 4 mm², grey	47.7	6.2	47.5	**NSYTRV44**	36.5	6.2	56	**NSYTRR42**	**NSYTRP42**
Passthrough, 4 mm², blue	47.7	6.2	47.5	**NSYTRV44BL**	36.5	6.2	56	**NSYTRR42BL**	**NSYTRP42BL**
Protective earth, 4 mm²	47.7	6.2	47.5	**NSYTRV44PE**	36.5	6.2	56	**NSYTRR42PE**	**NSYTRP42PE**

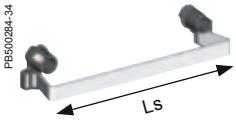




Characteristics	4-hole terminal blocks		
	■ The terminal-block support bar is particularly well suited to the thermoplastic boxes. ■ Boxes with sizes from 192 x 116 mm can accommodate a terminal-block support bar of 12 x 2 mm. ■ The screwing terminal blocks are easily clipped onto this bar. ■ Terminal-block connection capacity: see the selection table below.		
Minor pack.	10	5	5
Type	**Red (live)**	**Blue (neutral)**	**Green (earth)**
4-hole terminal blocks* 2 x 10² + 2 x 16²	**IMT34003**	**IMT34005**	**IMT34007**
Earth terminal block** 2 x 25²	**IMT34009**	-	-

** Terminal block length (Lb): 30 mm.*
*** The earth terminal snap fits into boxes with dimensions of less than 116 x 116 mm.*





Terminal-block support bar				No. of Terminal blocks 2 x 10² + 2 x 16² 4 holes	Support length Ls (mm)
Height or width	**Min. depth**	**Minor pack.**	**References**		
192	87	1	**IMT34000**	4	140
241	87	1	**IMT34001**	6	185
291	128	1	**IMT34002**	8	235

*Discover our complete terminal blocks range in **LVYED213001EN**.*

Insulating industrial boxes
Specific accessories

Hinges

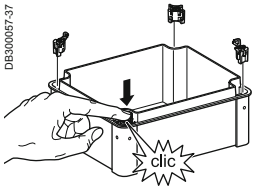


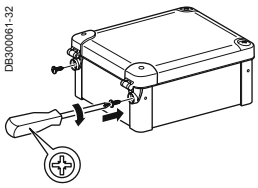


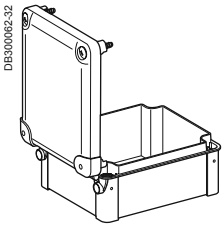


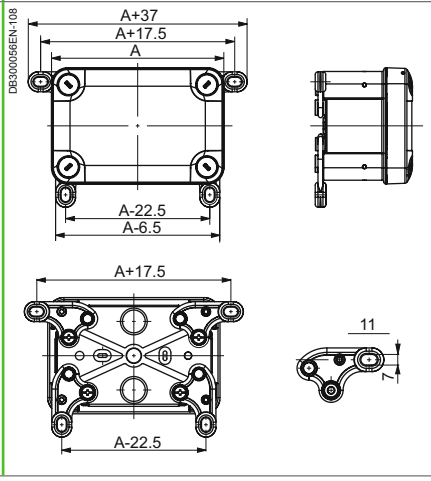


Characteristics	Set of 2 hinges		Set of 4 fixing lugs
	■ The hinges can be adapted to all covers with a height of 20 and 40 mm with dimensions from 138 x 93 mm. ■ The hinge allows the lid to open fully to 200°.		■ Plastic fixing lugs for installation on boxes with dimensions from 116 x 116 mm. ■ Option of vertical or horizontal installation.
Ingress protection rating	IP66		IP66
Installation	■ The hinge allows an opening angle > 200° ■ The hinge does not require any machining and is installed easily even with the box already equipped		Installation by a single screw at the last moment, with the box closed and equipped
Maximum load	Hinged cover: 10 kg/m²		■ Body: 30 kg/m² ■ Cover: 10 kg/m²
Minor pack.	1		1
Supply	The hinges (2 per set) are delivered with the fixings		4 lugs + screws
	Height of the lid (mm)	**References**	**Reference**
	20	**NSYAEDH20TB**	**NSYAEFTB**
	40	**NSYAEDH40TB**	



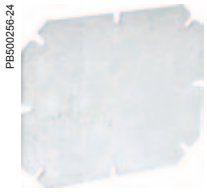






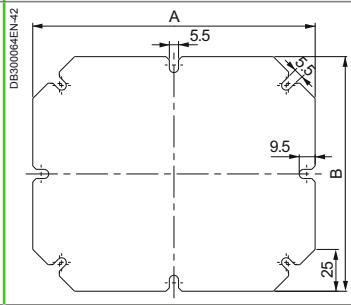
Insulating industrial boxes
Specific accessories

Installation accessories



Characteristics	Mounting plates	
	Mounting plates made to adapt to all usage scenarios.	
Material	Galvanised-steel	Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750°C.
Thickness	15/10e mm	25/10e mm
Installation	■ Fixing by means of Ø 4-mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB** ■ To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB** ■ To stack several mounting plates, use the spacers, ref. **NSYAMFEP154TB**, **NSYAMFEP204TB**, **NSYAMFEP304TB** and the screw **NSYAMFESTB**	
Supply	Plates supplied without screws	

Box (mm)		Dimensions (mm)		Minor pack.	References	
Height	Width	A	B			
192	164	168.5	140	1	**NSYAMPM1916TB**	**NSYAMPA1916TB**
241	194	215	168.5	1	**NSYAMPM2419TB**	**NSYAMPA2419TB**
291	241	265	215	1	**NSYAMPM2924TB**	**NSYAMPA2924TB**
341	291	315	265	1	**NSYAMPM3429TB**	**NSYAMPA3429TB**



Accessories		Pack of 100 screws	
Ø 4 x 10 mm	1	**NSYAMFSTB**	**NSYAMFSTB**

Insulating industrial boxes
Specific accessories

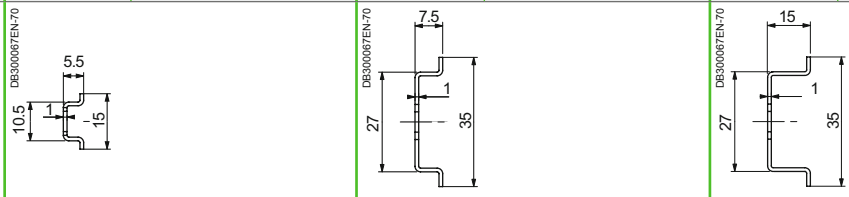
Installation accessories



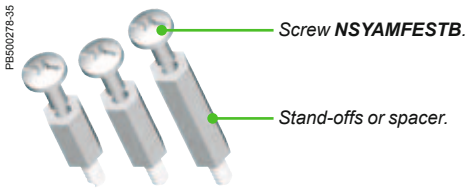
Box with 15 x 5-mm rail.

Box with two 35 x 7.5-mm rails.

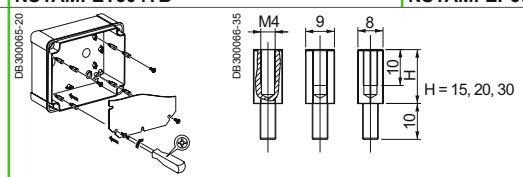
Characteristics	Rails					
	Symmetric DIN rails. ■ A 15 x 5-mm rail is provided for the compact terminal blocks. ■ To raise the rail, use stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB**.					
Installation	Fixing of the rails with Ø 4-mm self-tapping screws, (not included), Pozidrive and slotted head, ref. **NSYAMFSTB**					
Supply	Supplied without screws (except for the 15 x 5 mm rails)					
For boxes with height or width	**15 x 5 mm**		**35 x 7.5 mm**		**35 x 15 mm**	
(mm)	**Minor pack.**	**References**	**Minor pack.**	**References**	**Minor pack.**	**References**
105	10	**NSYAMRD11155TB**	10	**NSYAMRD11357TB**	-	-
150	10	**NSYAMRD16155TB**	10	**NSYAMRD16357TB**	-	-
175	10	**NSYAMRD19155TB**	10	**NSYAMRD19357TB**	-	-
225	10	**NSYAMRD24155TB**	10	**NSYAMRD24357TB**	10	**NSYAMRD243515TB**
275	10	**NSYAMRD29155TB**	10	**NSYAMRD29357TB**	10	**NSYAMRD293515TB**
325	10	**NSYAMRD34155TB**	10	**NSYAMRD34357TB**	10	**NSYAMRD343515TB**



Accessories	Pack of 100 screws
Ø 4 x 10 mm	**NSYAMFSTB**



Characteristics		Stand-offs	Spacers
		Stand-offs consisting of a Ø 4-mm self-tapping thread at one end (for direct screwing into the rivets of the box) and an M4 tapping on the other end, for direct installation of a card with an M4 screw, ref. **NSYAMFESTB**, or of a spacer.	Spacer for installation on the stand-offs. M4 thread and tapping.
Material		Steel	Steel
Supply		Set of four M4 self-tapping stand-offs	Set of four M4 spacers
Height (mm)	**Minor pack.**	**References**	
15	1	**NSYAMFET154TB**	**NSYAMFEP154TB**
20	1	**NSYAMFET204TB**	**NSYAMFEP204TB**
30	1	**NSYAMFET304TB**	**NSYAMFEP304TB**



Accessories		Screw for stand-offs and spacers
		M4 x 10 mm screw for fixing cards on the spacers and stand-offs. ■ The plate always at the right level. ■ A single Ø 4-mm screw for fixing any element.
Supply		Batch of 50 screws
	Minor pack.	**References**
	1	**NSYAMFESTB**

Insulating industrial boxes
Common accessories

Cable entries overview

PB500266-52 
PB500975-15 
PB500267-10 
PB500976-11 
PB500099-9 

Characteristics	Simple-1	Simple-2	Simple-3	Simple-4	Simple-5
	Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10e - 32/10e mm.	Quick cable entries for enclosure thickness 10/10e - 40/10e mm.	PVC adjustable cone-shaped entries for Pg tubes or for enclosure thickness 12/10e - 15/10e mm.	ISO cable gland.
Cable entry material	Soft membrane		Combined		
Cable glands to be fitted	Not applicable				
Installation possibilities	On cable gland plate or directly on enclosure				
Flexibility of the installation	Low				
Reversibility	Medium				
Ingress protection rating	IP55	IP55	IP67	IP55	IP68
Cable retention	Low	Low	Medium	Low	High
Cable diameter (mm)	From 20 to 40	From 18 to 87	From 12 to 50	From 16 to 44	From 12 to 40
Cable Installation time	Fast	Fast	Fast	Fast	Slow
Quantity of cables to be fitted for a given surface	+	+	+	+	+
Cable entries for cables with connectors	No	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter				
External dimensions (mm)	-	From Ø 25 to 98	-	From Ø 25 to 52	From Ø 15 to 46
Certificates	-	-	-	-	-
Flame resistance	750°C	-	750°C	-	750°C
References*					
See page	280	280	281	281	280

** For details, type reference in the search engine of www.schneider-electric.com.*

Spare Parts

Accessories bag

PB502997-39 

Reference
NSYTBPASBS

Thalassa PLS

Color change

Insulating modular boxes
Introduction

> PLS boxes: polyester rear and PC transparent cover with hinges and wing screws for manual opening.

PB502876-52



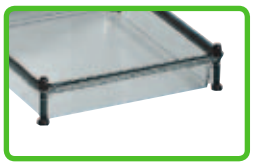
PB502791-61





Modular
The dimensions of the sides, multiples of 9 cm, allow the creation of assemblies.

PB502791



Protection
- IP65.
- Gasket between body and cover.
- IK09.
- Insulation Class II.

PB502876



Easy
Bosses with inserts, at the rear of the body, for fixing plates or various supports.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

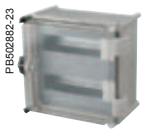
Color change

Insulating modular boxes
Characteristics

Class II







Characteristics	Complete box	Insulating modular boxes with modular distribution chassis	Modular distribution chassis
	■ Insulating boxes that can be coupled by all their side surfaces, allowing the creation of the greatest variety of modular assemblies. ■ The product references show the two lateral dimensions in cm. ■ 14 sizes of insulating boxes; the sides are multiples of 9 cm. ■ Rear made from polyester reinforced with fibreglass, moulded by hot compression, 9 sizes. ■ 3 types of cover available according to the sizes: □ standard cover, made from transparent polycarbonate with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes, □ opaque polycarbonate cover (index C), with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes, □ polyester reinforced with fiberglass cover (index P) with PUR gasket, 45 mm high. ■ Complete box includes rear, cover, locking screws and sealing device. ■ The rears (prefix F) and the covers (prefix T) are supplied separately as standard references. The separate covers are supplied without locking screws or sealing accessories. ■ The PLS enclosures with transparent cover are also offered in batches; the reference refers to the complete batch. ■ Excellent resistance to corrosion; can withstand most chemical agents. ■ Full insulation to create class II assemblies. ■ Standard lock with slot screws outside the volume of the boxes. Delivered with sealing system. ■ External wall-mounting by 4 lugs, to be ordered separately. ■ Service temperature: -30 to +70°C. ■ Bosses with M6 inserts for fixing the mounting plate. ■ Halogen-free and compliant with the RoHS directive.	PLS boxes, polyester rear and PC transparent cover with hinges and wing screws for manual opening. Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm² neutral/ earth connection strip. ■ Opening for cable entry, delivered with lock plate, ref. **NSYTL27270G**. ■ Double-insulating installation. ■ Plastic external hinges, allowing opening to 180°. ■ Removable 36-mm blanking covers (2 modules): 1 per row in the standard offer.	Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm² neutral/ earth connection strip.
Colour	RAL 7035 grey* (opaque rears and cover)	-	-
Ingress protection rating	IP65	-	-
Mechanical protection rating	IK09	-	-
Certifications	■ Certification according to standard IEC 62208, guaranteeing IP, IK, resistance to heat and fire (self-extinguishing), insulation to 5000 V, and load of the mounting plate, 100 kg/m² ■ UL508A** CAN/CSA-C22.2 - Types 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13	-	-
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure	-	-
Options	-	The boxes can be equipped with a double-bar lock and handle ref. **NSYCL27M**, or a lock with key ref. **NSYCL27L405**, by specific demand	-
Supply	-	The modular chassis can be ordered separately	-

** RAL 7035 from 2016.*
*** **NSYPLS**, **NSYPLSP** and **NSYPLSC** followed by suffixes.*

Thalassa PLS

Color change

Insulating modular boxes
Selection guide



Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	NSYPLS1827G	NSYPLSC1827G	NSYPLSP1827G	NSYPLS1827LG	56
270	270	180	NSYPLS2727G	NSYPLSC2727G	NSYPLSP2727G	NSYPLS2727LG	56
		230	NSYPLS2727AG	NSYPLSC2727AG	-	NSYPLS2727ALG	56
	360	180	NSYPLS2736G	NSYPLSC2736G	NSYPLSP2736G	NSYPLS2736LG	56
		230	NSYPLS2736AG	NSYPLSC2736AG	-	NSYPLS2736ALG	56
	540	180	NSYPLS2754G	NSYPLSC2754G	NSYPLSP2754G	NSYPLS2754LG	28
		230	NSYPLS2754AG	NSYPLSC2754AG	-	NSYPLS2754ALG	28
360	270	180	-	-	-	-	-
	360	180	NSYPLS3636G	NSYPLSC3636G	NSYPLSP3636G	NSYPLS3636LG	18
	540	180	NSYPLS3654G	NSYPLSC3654G	NSYPLSP3654G	NSYPLS3654LG	28
		230	NSYPLS3654AG	NSYPLSC3654AG	-	NSYPLS3654ALG	28
	720	230	NSYPLS3672AG	NSYPLSC3672AG	-	NSYPLS3672ALG	27
540	270	180	-	-	-	-	-
	540	180	NSYPLS5454G	NSYPLSC5454G	NSYPLSP5454G	NSYPLS5454LG	14
		230	NSYPLS5454AG	NSYPLSC5454AG	-	NSYPLS5454ALG	14
	720	230	NSYPLS5472AG	NSYPLSC5472AG	-	NSYPLS5472ALG	14

** Approximate weight.*



Dimensions (mm)			Rear	Low covers: 45 mm		
Height	Width	Depth	135 mm	Transparent	Opaque	Polyester
180	270	180	NSYFPLS1827G	NSYTPLS1827	NSYTPLSC1827G	NSYTPLSP1827G
270	270	180	NSYFPLS2727G	NSYTPLS2727	NSYTPLSC2727G	NSYTPLSP2727G
		230	NSYFPLS2727G	-	-	-
	360	180	NSYFPLS2736G	NSYTPLS2736	NSYTPLSC2736G	NSYTPLSP2736G
		230	NSYFPLS2736G	-	-	-
	540	180	NSYFPLS2754G	NSYTPLS2754	NSYTPLSC2754G	NSYTPLSP2754G
		230	NSYFPLS2754G	-	-	-
360	360	180	NSYFPLS3636G	NSYTPLS3636	NSYTPLSC3636G	NSYTPLSP3636G
	540	180	NSYFPLS3654G	NSYTPLS3654	NSYTPLSC3654G	NSYTPLSP3654G
		230	NSYFPLS3654G	-	-	-
	720	230	NSYFPLS3672G	-	-	-
540	540	180	NSYFPLS5454G	NSYTPLS5454	NSYTPLSC5454G	NSYTPLSP5454G
		230	NSYFPLS5454G	-	-	-
	720	230	NSYFPLS5472G	-	-	-

Color change

Insulating modular boxes
Selection guide


PB502881-27


PB502882-23

	Insulating modular boxes with modular distribution chassis				Modular distribution chassis
	No. of 18 mm modules	No. of rows	Weight* (kg)	References	References
	12	1	1.7	NSYPLS1827DLS12G	NSYDLS12
	24	2	2.5	NSYPLS2727DLS24G	NSYDLS24
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	24	2	2.7	NSYPLS3627DLS24G	NSYDLS242
	36	3	2.8	NSYPLS3627DLS36G	NSYDLS36
	-				-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	48	4	3.8	NSYPLS5427DLS48G	NSYDLS48
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-


PB501294-24


PB502885-23


PB500072-11


PB500102-15


PB502886-17


PB500103-11

	High covers: 95 mm		Metallic mounting plates		Insulating mounting plates	
	Transparent	Opaque	Plain	Telequick	Polyester	Bakelite
	-	-	NSYPMM1827	NSYPMR1827	NSYPMA1827G	NSYPMB1827
	-	-	NSYPMM2727	NSYPMR2727	NSYPMA2727G	NSYPMB2727
	NSYTPLS2727A	NSYTPLSC2727AG				
	-	-	NSYPMM2736	NSYPMR2736	NSYPMA2736G	NSYPMB2736
	NSYTPLS2736A	NSYTPLSC2736AG				
	-	-	NSYPMM2754	NSYPMR2754	NSYPMA2754G	NSYPMB2754
	NSYTPLS2754A	NSYTPLSC2754AG				
	-	-	NSYPMM3636	-	NSYPMA3636G	NSYPMB3636
	-	-	NSYPMM3654	NSYPMR3654	NSYPMA3654G	NSYPMB3654
	NSYTPLS3654A	NSYTPLSC3654AG				
	NSYTPLS3672A	NSYTPLSC3672AG	NSYPMM3672	NSYPMR3672	NSYPMA3672G	NSYPMB3672
	-	-	NSYPMM5454	NSYPMR5454	NSYPMA5454G	NSYPMB5454
	NSYTPLS5454A	NSYTPLSC5454AG				
	NSYTPLS5472A	NSYTPLSC5472AG	NSYPMM5472	NSYPMR5472	NSYPMA5472G	NSYPMB5472

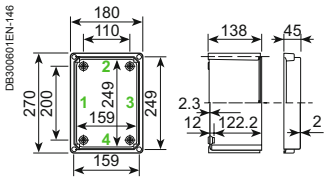
Thalassa PLS

Color change

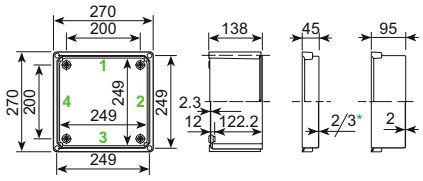
Insulating modular boxes
Dimensions

The surfaces are numbered to enable identification of the surfaces to be drilled in the customised offer.

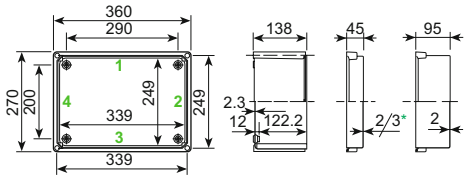
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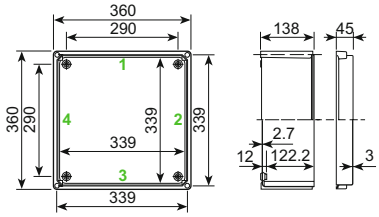
NSYPLS•••2727•G



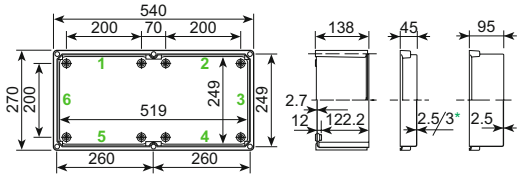
NSYPLS•••2736•



NSYPLS•••3636G

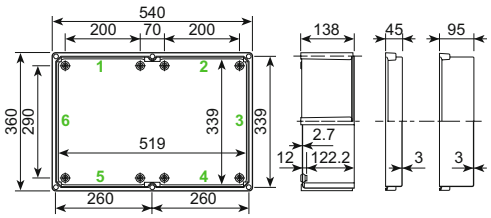


NSYPLS•••2754•G

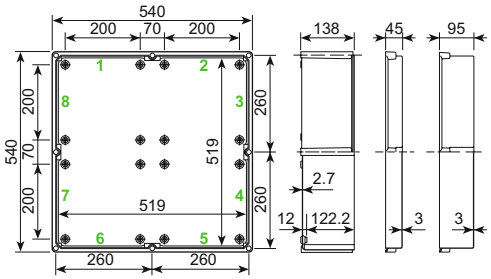


* *Thickness of 30/10e mm for the polyester cover.*

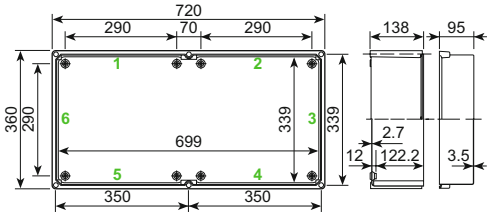
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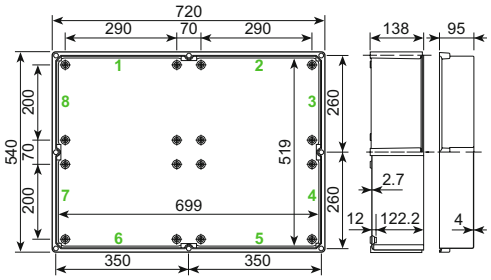
NSYPLS•••5454•G



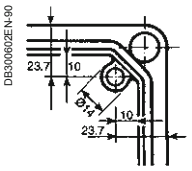
NSYPLS•••3672•G



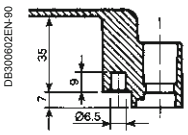
NSYPLS•••5472•G



A



B

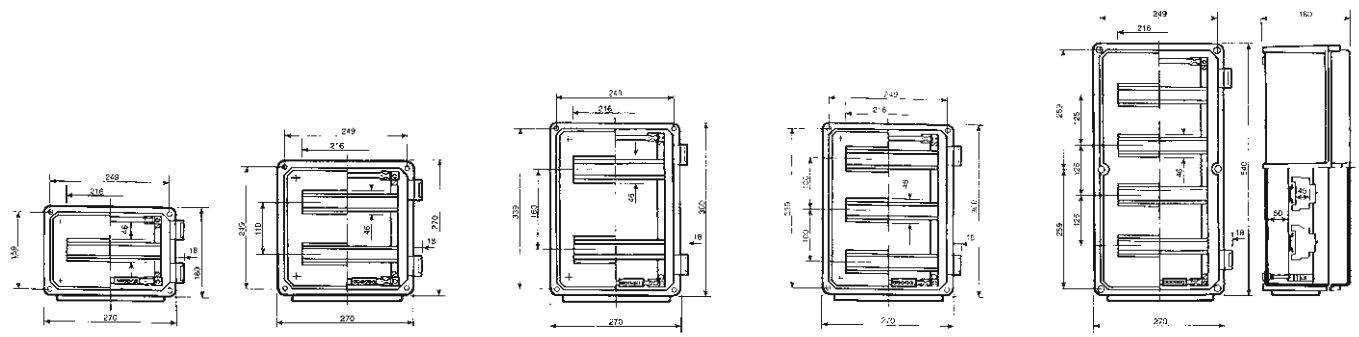


A - B: Internal view of the corners of the polyester covers with bosses for inserts ref. ***NSYTEX5*** *for M5 screws.*

Insulating modular boxes with modular distribution chassis

NSYPLS1827DLS12G **NSYPLS2727DLS24G** **NSYPLS3627DLS24G** **NSYPLS3627DLS36G** **NSYPLS5427DLS48G**

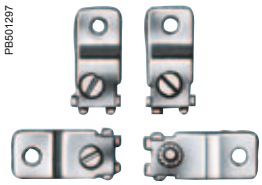
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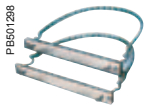


Color change

Insulating modular boxes
Accessories

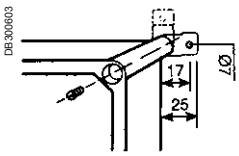
Fixing

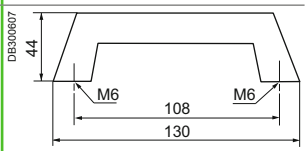




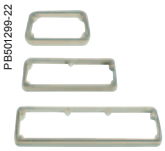


Characteristics	Wall-fixing lugs		Post-fixing device		Plastic carrying handle
Material	Passivated zinc-coated steel	Stainless-steel	-		Plastic
Supply	Set of 4 lugs and fixings		Contains all the elements required for mounting on a post		-
	References		**For installation on a surface with dimensions (mm)**	**References**	**Reference**
	NSYPF27N	**NSYPF27X**	270	**NSYFSP27270**	**NSYATM27**
			360	**NSYFSP27360**	
			540	**NSYFSP27540**	



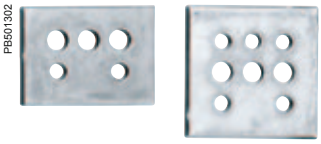


Coupling

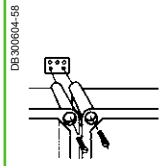


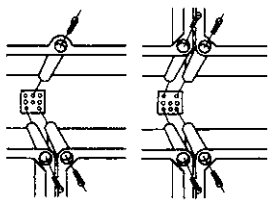






Characteristics	Coupling frames			Side plates		Box coupling unit piece	
	Use the boxes dimensional drawings to identify what coupling frame you need. Consider the sides and surfaces you will join.			-		For coupling 2, 3 or 4 boxes, with optional wall-mounting.	
Ingress protection rating	■ Frame with full opening: IP65 ■ Frame with partial opening: IP44			IP65		-	
Supply	-			-		To be ordered in multiples of 25	
References						**For coupling (2)**	
For surfaces (mm)	**Opening (mm)**	**Full-opening frame**	**Partial-opening frame**	**Side plates (mm)**		**2 boxes**	**3 or 4 boxes**
180	110	**NSYUM27180**	-	-	-	-	-
270	200	**NSYUM27270**	**NSYUCC270** (1)	200	**NSYTL27270G**	-	-
360	290	**NSYUM27360**	**NSYUCC360** (1)	290	**NSYTL27360G**	-	-
-	-	-	-	-	-	**NSYPS2C27**	**NSYPS4C27**





(1) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).
(2) M6 x 8 screw with cylindrical head.

Insulating modular boxes
Accessories

Locking



With slotted head.



With wings.



With plumbable triangular head.





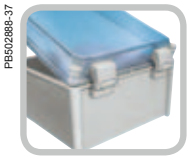




Characteristics		Closing for PLS boxes	Closing locks	Sealing and opening
Options		-	Option of installing a side lock, on the opposite side to where the hinges are installed	-
Supply		Set of 4, 6 or 8 screws. The references also include 4 M6 screws for fixing mounting plates and 2 steel sealing accessories	-	-
Name	**Tool**	**References**		
Set of 4 slotted screws (1)	Flat-blade screwdriver	**NSYTCD274**	-	-
Set of 6 slotted screws (1)	Flat-blade screwdriver	**NSYTCD276**	-	-
Set of 8 slotted screws (1)	Flat-blade screwdriver	**NSYTCD278**	-	-
Set of 4 wing screws (2)	Manual	**NSYTCM274**	-	-
Set of 6 wing screws (2)	Manual	**NSYTCM276**	-	-
Set of 8 wing screws (2)	Manual	**NSYTCM278**	-	-
Set of 4 triangular screws	NSYLT27	**NSYTCT274**	-	-
Set of 6 triangular screws		**NSYTCT276**	-	-
Set of 8 triangular screws		**NSYTCT278**	-	-
Double-bar side lock and handle	NSYDBP	-	**NSYCL27M**	-
Side lock with key 405		-	**NSYCL27L405**	-
Plastic-coated sealing triangle (3)	-	-	-	**NSYPPS27**
Triangular key for PLS	-	-	-	**NSYLT27**

*(1) Included in the standard references of boxes **NSYPLS•••**.*
*(2) Included in the standard references of modular distribution boxes **NSYPLS•••DLS•••**.*
(3) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

Other





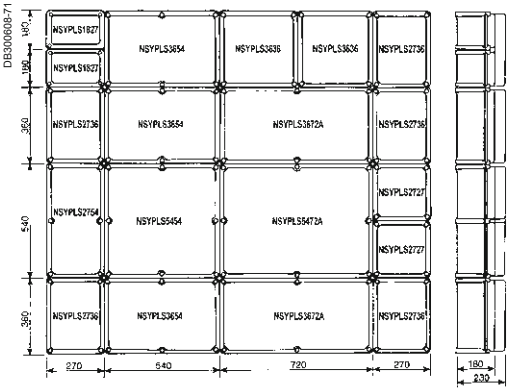




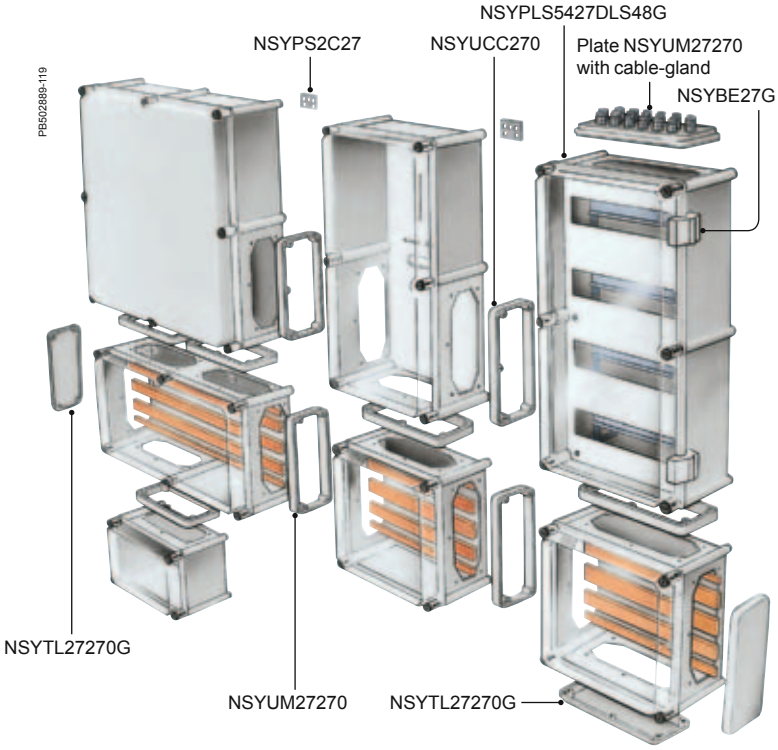
Characteristics	Hinges		Insulators for busbar	
	■ External hinges. ■ To open the door to 180°.	■ Internal hinges. ■ To open the door to 180°.	■ For 4 bars of 15 or 20 mm. ■ Utilisation on the 270 mm side.	■ For 1 bar of 15, 20 or 30 mm.
Material	Plastic	Brass	-	-
Supply	Set of 2 hinges	Set of 2 hinges	-	References by unit. Order by multiples of 5 units (5, 10, 15, etc.)
References				
	NSYBE27G	**NSYBL27**	**NSYAE25**	**NSYAS25**

Insulating modular boxes
Accessories

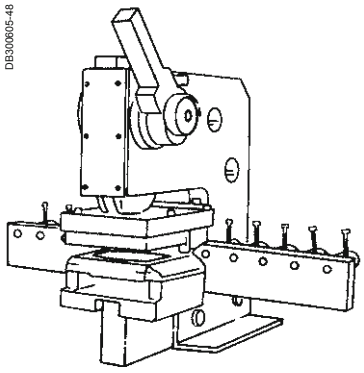
Examples of assembly



All the boxes can be joined by their lateral surfaces, using the coupling frames **NSYUM•••** or **NSYUCC•••**, and the joining and fixing pieces **NSYPS2C27** and **NSYPS4C27**.

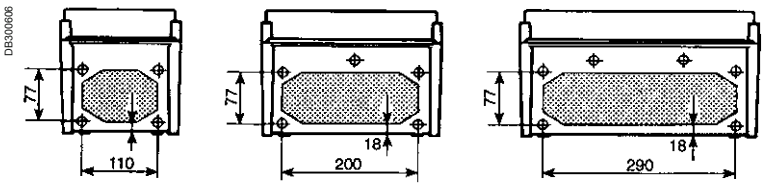


Drill holes



Side cut-out press, ref. ***NSYPUC27****.*

■ The machining operations on the dimensions of the lateral plates or frames can be specifically produced in our factory.
■ The surfaces can be identified by the numbers provided on page 158.

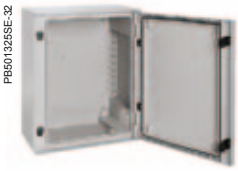


Dimensions here represented are approximate.
Template to machine the box provided with the product.

Insulating wall-mounting enclosures

Insulating wall-mounting enclosures
Contents





Thalassa PLM **164**
Insulating wall-mounting enclosures

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PHD Polyester Heavy Duty enclosures 332

New

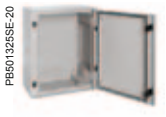
Early 2016, the PLM range changes color

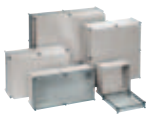
RAL 7032





RAL 7035





> **Why change?**
To harmonize the Schneider Electric Universal enclosures offer.
Answer to customer requests and to the the market trends.

> **What happen with the part numbers (references)?**
Every product that have changed in colour have also changed the part umber. It is done just adding a letter "G" at the end on reference. *Example:*

RAL 7032	RAL 7035
NSYPLM43	NSYPLM43G

> **How can I obtain RAL 7032 enclosures?**
Consult us.

> **Will the new RAL 7035 colour offer the same properties as RAL 7032?**
Yes, all mechanical properties will be the same. The light reflexion is even improved.

Thalassa PLM

Color change

Insulating wall-mounting enclosures
Introduction

> Monobloc wall-mounting enclosure

- made from polyester reinforced with fibreglass, moulded by hot compression.
- Degree of protection IP66,
- Impact resistance IK10 for the plain doors and surfaces and IK08 for the glazed doors of the polyester versions,
- UL certification and NEMA classification 4x and 13 for the polyester wall-mounting enclosures,
- Total insulation to produce class II units,
- Complies with RoHS and REACH Directives

PB501325SE



P129702-32



Service life

High resistance to corrosion in harsh environments, maintaining its mechanical properties and insulation.

PB501327SE-40



Easy

- Door easily reversible by turning it over.
- Opening to 120° or 180°.
- Easy machining with no corrosion.
- Lightness.
- Polyamide hinge pin, easily removable and captive.

PB501325SE-95



Smart

- Notches for easy fixing of DIN rails.
- Grid pattern on the rear of the door for marking the machining operations.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Color change

Insulating wall-mounting enclosures
Characteristics

Class II


PB500144SE-19


PB500145-23


PB500146SE-14


PB500147SE-14


PB502857-14


PB502858-14

Characteristics	ABS/PC wall-mounting enclosures	Polyester wall-mounting enclosures	
	■ Monobloc wall-mounting enclosure. ■ Version with transparent polycarbonate door. ■ Closes with a 3-mm double-bar lock. ■ Door opening: 180°. ■ Temperature range: -35°C...+90°C.	■ Monobloc wall-mounting enclosure. ■ Version with transparent tempered-glass door. ■ Closes with two 3-mm double-bar locks. ■ Door opening angle: 120°. ■ Grid pattern with a pitch of 50 mm on the back of the door.	■ Monobloc wall-mounting enclosure. ■ Version with transparent tempered-glass door. ■ Locking device outside the sealed area, guaranteeing the tightness of IP66 over time. ■ Locking system: □ enclosure height ≤ 847 mm: 2 locks with double-bar insert or 1 handle with key lock and 3-point closure, □ enclosure height 1056 mm: 1 lock with double-bar insert and 4-point closure. ■ Door opening angle: 180°. ■ Bosses for accessory-fixing inserts: M6 inside the enclosure, M5 in the door for enclosure heights of 430 and 530 mm, M6 in the door for enclosure heights ≥ 647 mm. ■ Grid pattern with a pitch of 25 mm on the back of the door.
Material	ABS/PC	Polyester reinforced with fibreglass, moulded by hot compression	
Temperature range - Polyester parts	-	-50°C … +150°C	
Temperature range - Gasket	-35°C … +90°C		
Colour	RAL 7035 grey*		
Ingress protection rating	IP66 according to IEC 60529		
Mechanical protection rating	■ IK10 (20 joules) plain door - IEC 62262 ■ IK08 (5 joules) glazed door		
Certifications	■ IEC 62208 ■ Marine	■ IEC 62208 ■ Marine ■ UL 508A - Nema type: 1, 2, 3, 3R, 3S, 4, 4X, 5, 12, 12K and 13	■ IEC 62208 ■ Marine
Installation	■ Direct fixing of symmetrical rails ref. **NSYCS200PLM** with plastic nuts ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm ■ Fixing of installation plates on the studs at the rear of the enclosure	Fixing of rear accessories on 4 M8 x 18 studs	■ Fixing of rear accessories on 4 M8 studs, included in the standard supply ■ Direct fixing of symmetrical rails ref. **NSYCS●●●PLM**, with plastic nuts, ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm

External dimensions (mm)			References of wall-mounting enclosures with door							
Height	Width	Depth	Plain (3)	Transparent	Plain (3)	Transparent	Plain (3)	Transparent	Plain (1)	Transparent (1)
308	255	160	-	-	**NSYPLM3025G**	**NSYPLM3025TG**	-	-	-	-
310	215	160	**NSYPLM32G**	**NSYPLM32TG**	-	-	-	-	-	-
430	330	200	-	-	-	-	**NSYPLM43G**	**NSYPLM43TG**	**NSYPLM43VG**	**NSYPLM43TVG**
530	430	200	-	-	-	-	**NSYPLM54G**	**NSYPLM54TG**	**NSYPLM54VG**	**NSYPLM54TVG**
647	436	250	-	-	-	-	**NSYPLM64G**	**NSYPLM64TG**	**NSYPLM64VG**	**NSYPLM64TVG**
747	536	300	-	-	-	-	**NSYPLM75G**	**NSYPLM75TG**	**NSYPLM75VG**	**NSYPLM75TVG**
847	636	300	-	-	-	-	**NSYPLM86G**	**NSYPLM86TG**	**NSYPLM86VG**	**NSYPLM86TVG**
1056	852	350	-	-	-	-	**NSYPLM108G** (2)	**NSYPLM108TG** (2)	-	-

(1) Wall-mounting enclosure with handle and lock with 3-point closure and key 1242 E delivered as standard.
(2) Wall-mounting enclosure with standard 5 mm double-bar lock and lock with 4-point closure.
(3) These enclosures are also available equipped with metallic or insulating mounting plates.
** RAL 7035 from 2016.*

External dimensions (mm)			Wall-mounting enclosures with plain door and mounting plate (4)					
Height	Width	Depth	Plain	Bakelite	Plain	Bakelite	Plain	Bakelite
308	255	160	-	-	**NSYPLM3025PG**	**NSYPLM3025BG**	-	-
310	215	160	**NSYPLM32PG**	**NSYPLM32BG**	-	-	-	-
430	330	200	-	-	-	-	**NSYPLM43PG**	**NSYPLM43BG**
530	430	200	-	-	-	-	**NSYPLM54PG**	**NSYPLM54BG**
647	436	250	-	-	-	-	**NSYPLM64PG**	**NSYPLM64BG**
747	536	300	-	-	-	-	**NSYPLM75PG**	**NSYPLM75BG**
847	636	300	-	-	-	-	**NSYPLM86PG**	**NSYPLM86BG**
1056	852	350	-	-	-	-	-	**NSYPLM108BG**

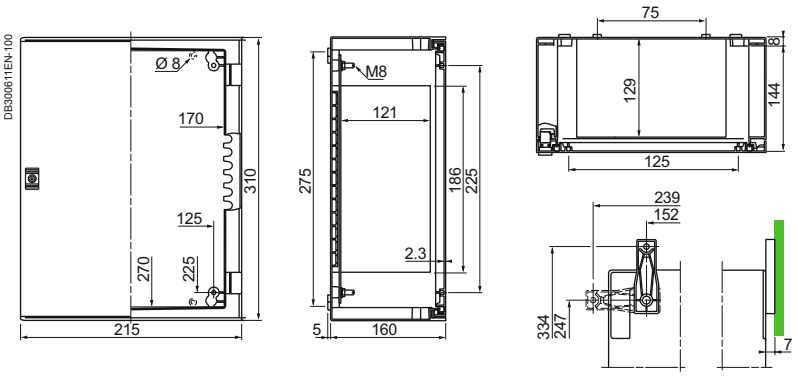
(4) Not mounted.

Thalassa PLM

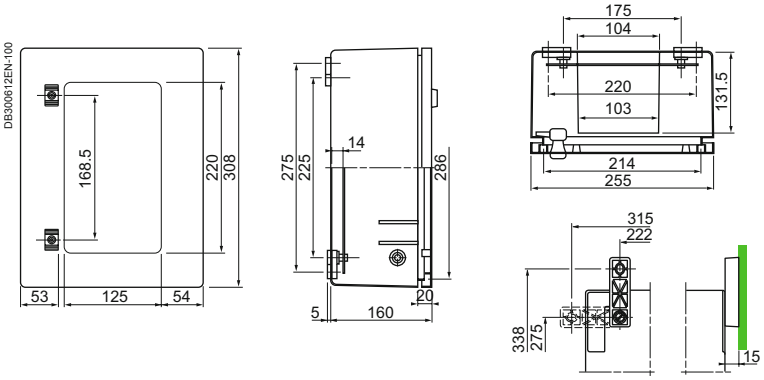
Color change

Insulating wall-mounting enclosures
Dimensions

ABS/PC wall-mounting enclosures

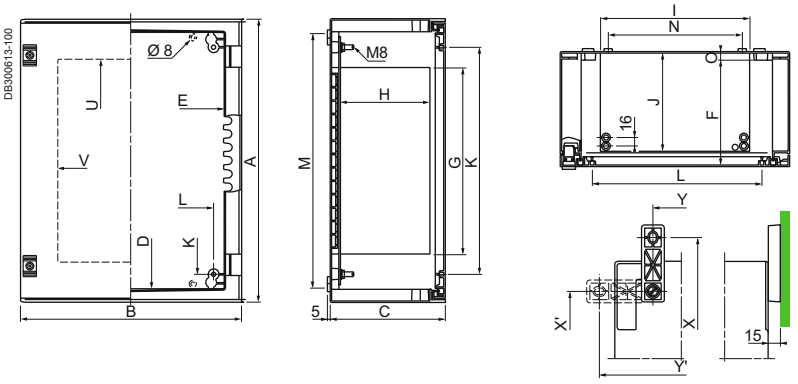


Polyester wall-mounting enclosures 308 x 255 mm



Glazed door opening (mm)		References
U	V	
273	194	NSYPLM43TG
	151	NSYPLM43TVG
373	294	NSYPLM54TG
	251	NSYPLM54TVG
463	294	NSYPLM64TG
	252	NSYPLM64TVG
563	394	NSYPLM75TG
	352	NSYPLM75TVG
663	494	NSYPLM86TG
	452	NSYPLM86TVG
854	661	NSYPLM108TG

Other polyester wall-mounting enclosures



External fixing with lugs (mm)				References
Vertical		Horizontal		
X	Y	X'	Y'	
490	225	355	360	NSYPLM43G
590	325	455	460	NSYPLM54G
690	330	555	465	NSYPLM64G
790	430	655	565	NSYPLM75G
890	530	755	665	NSYPLM86G
1090	750	955	885	NSYPLM108G

Dimensions (mm)										Bottom screw and door bosses (mm)		Internal fixing (mm)			References
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
430	330	200	380	260	181	247	150	179	168	325	225	375	150	13	NSYPLM43G
530	430	200	480	360	181	347	150	279	168	425	325	475	250	13	NSYPLM54G
647	436	250	580	360	228	388	192	279	212	525	325	575	250	13	NSYPLM64G
747	536	300	680	460	278	487	241	379	261	625	425	675	350	15	NSYPLM75G
847	636	300	780	560	278	587	241	479	261	725	525	775	450	15	NSYPLM86G
1056	852	350	980	760	327	775	280	680	300	925	725	975	650	15	NSYPLM108G

Color change

Insulating wall-mounting enclosures
Specific accessories overview

PB502860-68



Composition accessories

Base accessories

PB502788-15



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Fixing

PB502861-24



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Coupling

PB502862-44



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Cable entry

PB502863-23



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Door

PB501335SE-40



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Locking systems

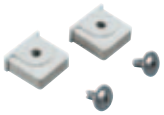
PB501336-28



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Mounting

PB502864-40



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Diverse

PB501343-32



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Thalassa PLM

Color change

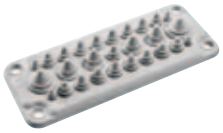
Insulating wall-mounting enclosures

Common accessories overview

Cable management

Cable management

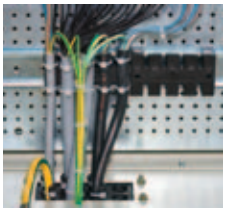
PB502492-29



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Cable holding

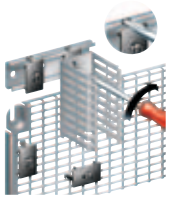
PB500966-40



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Cable ducting

PB500958-22



Page 285

Thermal management

Heaters

PB502050-29



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Ventilation

PB501044-26



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Thermal control

PB501162-19



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Installation accessories

Mounting acc.

PB500072-17

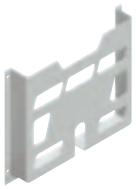


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Others

Document pocket

PB502859-18



Page 295

Color change

Insulating wall-mounting enclosures
Specific accessories

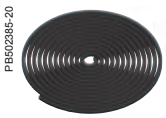
Base accessories



Characteristics	ZM plinth for PLM enclosure
	Designed to support and raise enclosures **NSYPLM75G**, **NSYPLM86G** and **NSYPLM108G**. ■ Plinth height of 200 mm; stackable to obtain a 400-mm plinth. ■ Four floor-attachment points; the symmetry of the parts prevents incorrect assembly. The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation. In stacked position, the bottom plinth can be partially buried. It is provided with one transverse reinforcement rail, adjustable to adapt to the position of the cables. The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.
Material	Polyester reinforced with fibreglass, moulded by hot compression
Ingress protection rating	IP44
Mechanical protection rating	IK10
Standards	Guarantees total insulation according to IEC 61439-1

For enclosure				Cabling area		Plinth			
Height (mm)	Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	References
747	536	300	**NSYPLM75G**	256	252	200	456	302	**NSYZM253G**
847	636	300	**NSYPLM86G**	356	252	200	556	302	**NSYZM263G**
1056	852	350	**NSYPLM108G**	572	302	200	772	352	**NSYZM283G**







Accessories	Cable supporting cross-rail		Kit for IP54	Feet for partially buried installation
	The lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables. The reference of the cross-rail includes all the elements required for assembly.		Makes it possible to obtain IP54 for the plinth and the plinth-enclosure coupling.	Allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth. The reference includes a kit made up of four feet and fixings.
	For plinth	**Cross-rail references**	**Reference**	**Reference**
	NSYZM253G	**NSYAC280**	**NSYAEPZM**	**NSYAEBFZ**
	NSYZM263G	**NSYAC360**		
	NSYZM283G	**NSYAC600**		

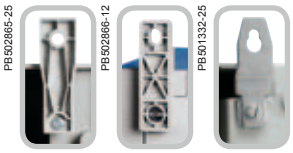
Thalassa PLM

Color change

Insulating wall-mounting enclosures
Specific accessories

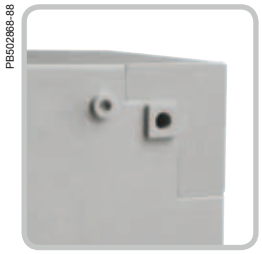
Fixing



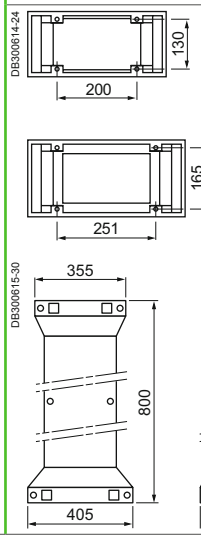


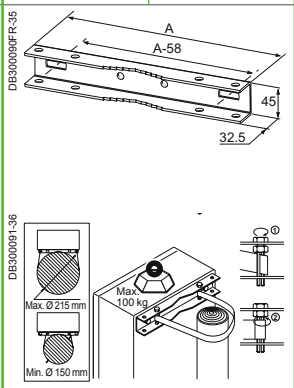
NSYPFPLM32G NSYPFPLMG NSYPFXPLM





Characteristics	Floor-mounting pillar	Wall-fixing lugs		Post-fixing device		Blanking plates	
	To protect cables entering the enclosure in outdoor installations. Cable entry section: 165 x 100 mm. For enclosures ref. **NSYPLM54G**, **NSYPLM54TG**, **NSYPLM64G** and **NSYPLM64TG**.	Set of 4 wall-fixing lugs. Mounted directly on the enclosure, either in horizontal position or in vertical position.		For outdoor installations on a post with a maximum circumference of 675 mm, Ø 215 mm.		They are positioned on the rear surface of the enclosures to block the openings in the corners in order to improve theirappearance or prevent the entry of unwanted elements in the ventilation shaft. Supplied as standard for enclosure, ref. **NSYPLM108G**.	
Material	Polyester reinforced with fibreglass	Polyamide loaded with fibreglass	Stainless-steel	Galvanised steel		Thermoplastic	
Colour	RAL 7035 grey*	-		-		-	
Maximum load	-	■ Vertical position: 200 kg ■ Horizontal position: 100 kg		100 kg		-	
Supply	Delivered with steel frame for secure fixing to the floor	Delivered with fixings		Supply of the rail, the strips and the fixings		-	
	Reference	**References**		**For wall-mounting enclosure**	**References**	**For wall-mounting enclosure**	**References**
	NSYSFSPLMG	**NSYPFPLMG** **NSYPFPLM32G** (1)	**NSYPFXPLM**	NSYPLM43G	**NSYSFP300**	NSYPLM32G	**NSYCEPLMAG**
				NSYPLM54G & NSYPLM64G	**NSYSFP400**	NSYPLM43G & NSYPLM54G	**NSYCEPLMBG**
				NSYPLM75G	**NSYSFP500**	NSYPLM64G, 75G and 86G	**NSYCEPLMCG**
				NSYPLM86G	**NSYSFP600**	-	-





*(1) Exclusive for enclosures ref. **NSYPLM32G** and **NSYPLM32TG**.*
** RAL 7035 from 2016.*

Life Is On Schneider Electric

Color change

Insulating wall-mounting enclosures
Specific accessories

Coupling and cable-entry

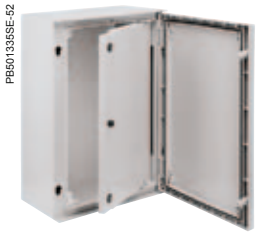

PB502862-37


PB502863-33

Characteristics			Coupling frame	Cable-gland plates
			Allows the lateral coupling of 2 enclosures.	Dimensions: 435 x 185 mm and 635 x 185 mm.
Material			Polyester frame	Polyester
Colour			RAL 7035 grey*	RAL 7035 grey*
Ingress protection rating			A built-in sealing gasket guarantees a protection rating of IP66	-
Supply			Delivered with fixings	-
External dimensions (mm)	**Entry**	**For wall-mounting enclosure**	**References**	
435 x 185 x 15	398 x 148	NSYPLM75G and NSYPLM86G	**NSYBUPLMG**	**NSYTLA4420G**
635 x 185 x 15	598 x 148	NSYPLM108G	**NSYBU108PLMG**	**NSYTLA6420G**

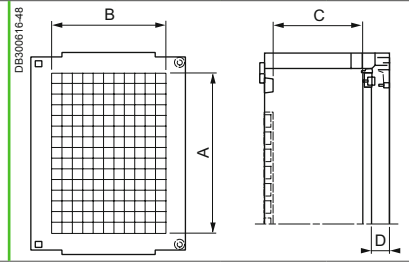
** RAL 7035 from 2016.*

Door


PB501355E-52

Characteristics	Internal door
	■ Reversible door. ■ Grid pattern with a pitch of 25 mm for easier marking out before drilling. ■ Closes with 2 double-bar locks. ■ Door handle. ■ Steel internal door, without grid pattern and locking by a screw, for enclosures ref. **NSYPLM3025G**. ■ Incompatible with the modular distribution chassis.
Material	Polyester reinforced with fibreglass, self-extinguishing
Colour	RAL 7035 grey*
Supply	Delivered with fixings and brass inserts

For wall-mounting enclosure (mm)		Dimensions (mm)					References
Height	**Width**	**A**	**B**	**C**	**D**		
					Plain door	**Transp. door**	
308	255	248	165	62	76	71	**NSYPA3025PLMG**
430	330	315	205	152	26	21	**NSYPAP43G**
530	430	415	305	152	26	21	**NSYPAP54G**
645	435	515	305	194	32	27	**NSYPAP64G**
745	535	615	405	244	32	27	**NSYPAP75G**
845	635	715	505	244	32	27	**NSYPAP86G**
1055	850	850	650	269	37	32	**NSYPAP108G**



** RAL 7035 from 2016.*

Thalassa PLM

Color change

Insulating wall-mounting enclosures
Specific accessories

Locking system

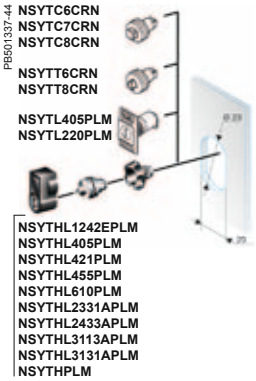

PB501336-33

Characteristics	Locks and inserts for enclosures with H ≤ 847 mm

- The ABS/PC 310 x 215 mm enclosure is supplied with a lock with a double-bar insert as standard.
- The 308 x 255 mm enclosure is supplied with two locks with a double-bar insert as standard.
- The polyester enclosures from 430 to 847 mm high are delivered as standard with:
  - 2 locks with double-bar insert, ref. **NSYCDBPLM**,
  - or a 3-point closure with handle and lock with key 1242 E (enclosures **NSYPLM••VG**).
- Double-bar insert ref. **NSYTDBCRN**, is placed in a rectangular escutcheon.
- A plastic key, ref. **NSYDBP**, enabling the opening of the double-bar insert, is included in the standard supply.

This key can be fixed to the double-bar system to remain on the enclosure and be used as a handle.

Options

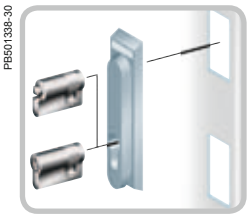


Options to transform the locks with double-bar inserts

Changing the shape inserts for locks with keys according to the following table.

Replacement for locking handle with cylindrical barrel, delivered with all the parts required to change the lock.

Name	References	Type of barrel	References
6 mm male square	**NSYTC6CRN**	Key 1242 E	**NSYTHL1242EPLM**
7 mm male square	**NSYTC7CRN**	Key 405	**NSYTHL405PLM**
8 mm male square	**NSYTC8CRN**	Key 421	**NSYTHL421PLM**
6.5 mm male triangle	**NSYTT6CRN**	Key 455	**NSYTHL455PLM**
-	-	Key 610	**NSYTHL610PLM** New
8 mm male triangle	**NSYTT8CRN**	Key 2331 A	**NSYTHL2331APLM**
Lock and key 405	**NSYTL405PLM**	Key 2433 A	**NSYTHL2433APLM**
Lock and key 220	**NSYTL220PLM**	Key 3113 A	**NSYTHL3113APLM**
-	-	Key 3131A	**NSYTHL3131APLM** New
-	-	Manual	**NSYTHPLM**


PB501338-30

Options to transform versions NSYPLM••V, with retractable handle and 3-point closure

Transformation of the standard insert (barrel for key 1242E, ref. **NSYTL1242EME**) for other shape inserts or barrels according to the following table.

Name	References
5 mm double bar	**NSYTDB5ME**
6 mm male square	**NSYTC6ME**
7 mm male square	**NSYTC7ME**
8 mm male square	**NSYTC8ME**
6.5 mm male triangle	**NSYTT6ME**
8 mm male triangle	**NSYTT8ME**
Barrel and key 405	**NSYTCL405ME**
Reinforced key and barrel	**NSYTLRME**
JIS key and barrel	**NSYTLJISME**
Manual	**NSYTMME**

Color change

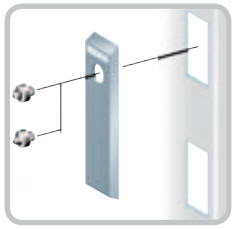
Insulating wall-mounting enclosures
Specific accessories

Locking system

Locks and inserts for enclosures NSYPLM108/T

- Enclosures delivered as standard with 5 mm double-bar insert.
- Insert ref. **NSYTDB5PL**, placed in a long rectangular escutcheon, activates a 4-point closure system.

PB501339-30

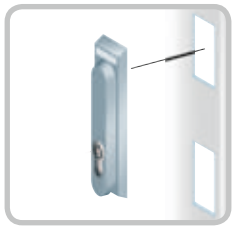


Options to transform the insert

The standard insert can be replaced with other shape inserts, according to the following table.

Name	References
6 mm male square	**NSYTC6PL**
7 mm male square	**NSYTC7PL**
8 mm male square	**NSYTC8PL**
6.5 mm male triangle	**NSYTT6PL**
7 mm male triangle	**NSYTT7PL**
8 mm male triangle	**NSYTT8PL**

PB501340-20



Options to transform for a retractable handle

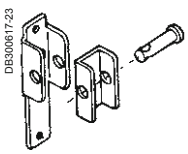
The escutcheon and rosette assembly can be replaced with a lock with retractable handle equipped with inserts or barrels, according to the following table.

Name	References
5 mm double bar	**NSYTEDB5PL**
6 mm male square	**NSYTEC6PL**
7 mm male square	**NSYTEC7PL**
8 mm male square	**NSYTEC8PL**
6.5 mm male triangle	**NSYTET6PL**
7 mm male triangle	**NSYTET7PL**
8 mm male triangle	**NSYTET8PL**
Lock key 1242 E	**NSYTEL1242EPL**
Barrel and key 405	**NSYTEL405PL**
Reinforced key and barrel	**NSYTERPL**
JIS key and barrel	**NSYTELJISPL**
FAC key and barrel	**NSYTELFACPL**
Manual	**NSYTEMPL**

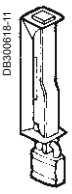
PB502869-23



DB300617-23



DB300618-11



Padlocking accessories

	Padlocking system positioned around the rectangular escutcheon of the enclosures with a height of ≤ 847 mm to block access to the lock; for a Ø 9 mm padlock.	Padlocking system positioned around the long rectangular escutcheon of the enclosures ref. **NSYPLM108G/TG**, to block access to the lock; for Ø 9 mm padlock.	Padlocking system to block access to the retractable handle, for the versions **NSYPLM••V** or optionally for enclosures ref. **NSYPLM108G/TG**, for a Ø 9 mm padlock.
References			
	NSYKPLM	**NSYBCPL**	**NSYBCME**

Thalassa PLM

Color change

Insulating wall-mounting enclosures
Specific accessories

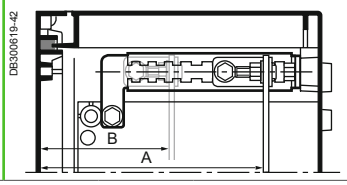
Mounting accessories


PB500140-42


PB502864-36


PB502871-42

Characteristics		Step slides			Plastic nuts for rail fixing		35 mm symmetrical DIN rails	
		Kit allowing depth adjustment with a pitch of 12.5 mm, and the fixings required for the installation. Incompatible with the modular distribution chassis.			They slide directly into the notches, with a pitch of 25 mm, which are located on the rear of the enclosures, except enclosure ref. **NSYPLM3025G/TG**. They allow direct fixing of symmetrical DIN rails by self-tapping screws. Option of raising the rails with an M6 spacer using a plastic nut containing an M6 nut.		They are fixed to the rear of the enclosure without uprights, with a pitch of 25 mm for the notches on the rear of the enclosure, with the help of direct-fixing nuts ref. **NSYTCSPLM** or **NSYTCSM6PLM**.	
Material		Galvanised steel			-		Treated steel	
Supply		4 step slides with brackets			References by unit. Order by multiples of 20 units (20, 40, 60, etc.)		References by unit. Order by multiples of 2 units (2, 4, 6, etc.)	
For wall-mounting enclosure (mm)		**Depth adjustment (mm)**		**References**	**Name**	**References**	**Rail length (mm)**	**References**
Width	**Depth**	**A**	**B**					
-	-	-	-	-	Plastic nut with self- tapping screw	**NSYTCSPLM**	-	-
-	-	-	-	-	Plastic nut containing an M6 metal nut	**NSYTCSM6PLM**	-	-
215	-	-	-	-	-	-	180	**NSYCS200PLM**
330	-	-	-	-	-	-	280	**NSYCS300PLM**
430 / 436	-	-	-	-	-	-	380	**NSYCS400PLM**
536	-	-	-	-	-	-	480	**NSYCS500PLM**
636	-	-	-	-	-	-	580	**NSYCS600PLM**
852	-	-	-	-	-	-	795	**NSYCS800PLM**
-	200	156	94	**NSYDPLM200**	-	-	-	-
-	250	200	100	**NSYDPLM250**	-	-	-	-
-	300	250	100	**NSYDPLM300**	-	-	-	-
-	350	306	106	**NSYDPLM350**	-	-	-	-



Color change

Insulating wall-mounting enclosures
Specific accessories

Diverse



NSYTEX8PLM



NSYTEX6



NSYTEX5







Characteristics	Fixing inserts			Ventilation louvres*	Water drain plug	Renovation and anti-graffiti paint		
	Expanding inserts for addition to the M6 bosses of the enclosure, the M5 or M6 bosses of the door and the M8 bosses of the external rear part of the enclosure.			They can be positioned inside the wall-mounting enclosures with heights of 430 to 846 mm, allowing ventilation through the channels of the enclosure.	For drainage of condensation water. It is placed in the Ø 8.5 mm** housing at the bottom of the enclosure.	Paint kit with 2 components (base 80 % + hardener 20 %), specially designed for polyester enclosures, for their renovation and/or as prevention to allow easy removal of graffiti.		Solvent for diluting the paint and cleaning the utensils.
Colour	-			-	-	RAL 7035 grey		-
Ingress protection rating	-			The IP on the rear of the enclosures is IP44	IP53 (IEC 60529 cat. 2)	-		-
Supply	References by unit. Order by multiples of 8 units (8, 16, 24, etc.). M5 and M6 inserts to be ordered in multiples of 20			References by unit. Order by multiples of 2 units (2, 4, 6, etc.)	References by unit. Order by multiples of 10 units (10, 20, 30, etc.)	The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener (It is enough to paint a surface of around 5 m²)	The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener (It is enough to paint a surface of around 25 m²)	500 g
	Insert size	**For wall-mounting enclosure**	**References**	**Reference**	**Reference**	**References**		
	M5	NSYPLM43G and NSYPLM54G	**NSYTEX5**	**NSYCAG35LP**	**NSYVEA9**	**NSYAUPG1G**	**NSYAUPG5G**	**NSYAUPGS**
	M6	NSYPLM64G and NSYPLM108G	**NSYTEX6**					
	M8	For the rear of the enclosure	**NSYTEX8PLM**					

** Ventilation louvres, airing devices with filters, fans and thermal adjustment accessories, see ClimaSys section.*
*** 8.2 mm for wall-mounting enclosures NSYPLM32G, NSYPLM32TG, NSYPLM32PG and NSYPLM32BG.*

Thalassa PLM

Color change

Insulating wall-mounting enclosures
Specific accessories

S3D* S3X PLM

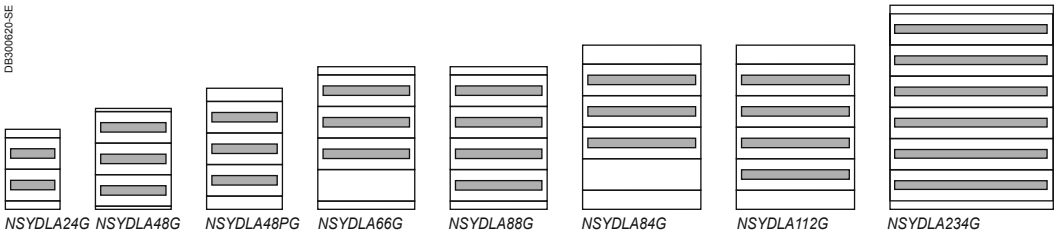
** Minimum depth 200 mm.*

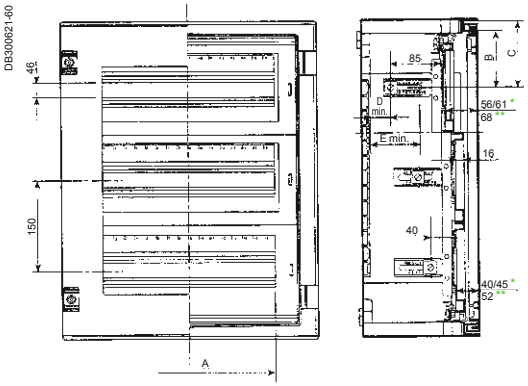
Power distribution accessories



Characteristics	Dinimel DLA modular chassis
	■ Front panels and covers installed in the front part, are not depth adjustable. ■ Rigid structure for the installation of modular devices. ■ Open front panels with 35 mm DIN rail and plain front panels with mounting plate, according to the model. ■ Quick installation with no fixings. ■ Shoulder height adjustable from 40 to 85 mm. ■ System for standard circuit marking. ■ Incompatible with the internal doors and the step slides. ■ Neutral / earth strip: 2 x 16 mm² + 5 x 6 mm².
Material	■ Front panels and finish covers: self-extinguishing insulating ■ Rigid structure: galvanised-steel
Colour	Front panels and finish covers: RAL 7035 grey*

Dimensions (mm)					Distribution rows				For installation in the enclosures				References
A	B	C	D min.	E min.	No. of useful rows	No. of 18 mm modules per row	No. of 18 mm modules	No. of plates	PLM enclosure References		S3D enclosure (depth ≥ 200 mm) Height	Width	
216	115	137	38	88	2	12	24	-	**NSYPLM43G**	**NSYPLM43TG**	400	300	**NSYDLA24G**
286	90	112	38	88	3	16	48	-	**NSYPLM54G**	**NSYPLM54TG**	500	400	**NSYDLA48G**
286	140	170	80	130	3	16	48	-	**NSYPLM64G**	**NSYPLM64TG**	600	400	**NSYDLA48PG**
395	115	145	129	179	3	22	66	1	**NSYPLM75G**	**NSYPLM75TG**	700	500	**NSYDLA66G**
395	115	145	129	179	4	22	88	-	**NSYPLM75G**	**NSYPLM75TG**	700	500	**NSYDLA88G**
504	165	195	129	179	3	28	84	1	**NSYPLM86G**	**NSYPLM86TG**	800	600	**NSYDLA84G**
504	165	195	129	179	4	28	112	-	**NSYPLM86G**	**NSYPLM86TG**	800	600	**NSYDLA112G**
704	115	146	170	220	6	39	234	-	**NSYPLM108G**	**NSYPLM108TG**	1000	800	**NSYDLA234G**





** Models NSYDLA48PG, 66, 88, 84 and 112.*
*** Model NSYDLA234.*

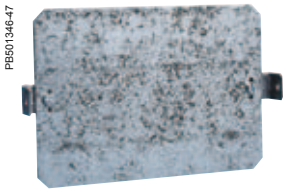
** RAL 7035 from 2016.*

Color change

Insulating wall-mounting enclosures
Specific accessories

Power distribution accessories







Characteristics	Plain front panels for Dinimel DLA chassis		Mounting plate for Dinimel DLA chassis		Modular distribution chassis
	■ Front panel for non-modular device protection, on one row. ■ To be ordered in multiples of 2.		■ Mounting plate for mounting non-modular devices, on one row. ■ To be ordered in multiples of 2.		For mounting modular devices on two rows of nine 18-mm modules.
Material	Self-extinguishing insulating		Galvanised-steel		■ Chassis: metal ■ Protective plate: insulating material
Colour	RAL 7035 grey*		-		-
For installing on the chassis	**Width (mm)**	**References**	**Width (mm)**	**References**	**Reference**
NSYDLA24G	256	**NSYCTL300DLAG**	-	-	-
NSYDLA48G and **NSYDLA48PG**	356	**NSYCTL400DLAG**	315	**NSYPMP400DLA**	-
NSYDLA66G and **NSYDLA88G**	456	**NSYCTL500DLAG**	415	**NSYPMP500DLA**	-
NSYDLA84G and **NSYDLA112G**	555	**NSYCTL600DLAG**	514	**NSYPMP600DLA**	-
NSYDLA234G	755	**NSYCTL800DLAG**	714	**NSYPMP800DLA**	-
For enclosure					
NSYPLM3025G/TG	-	-	-	-	**NSYDLPLM18G**

** RAL 7035 from 2016.*

Insulating floor-standing enclosures

Insulating floor-standing enclosures
Contents



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Polyester floor-standing enclosures

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Thalassa PLD **204**
Polyester DIN floor-standing enclosure

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Associated applicative offers

PHD Polyester Heavy Duty enclosures 332

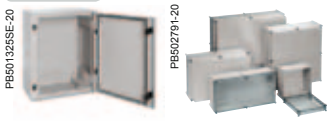
New

Early 2016, the PLA and PLD ranges change color

RAL 7032



RAL 7035



> **Why change?**
To harmonize the Schneider Electric Universal enclosures offer.
Answer to customer requests and to the the market trends.

> **What happen with the part numbers (references)?**
Every product that have changed in colour have also changed the part umber. It is done just adding a letter "G" at the end on reference. *Example:*

RAL 7032	RAL 7035
NSYPLM43	NSYPLM43G

> **How can I obtain RAL 7032 enclosures?**
Consult us.

> **Will the new RAL 7035 colour offer the same properties as RAL 7032?**
Yes, all mechanical properties will be the same. The light reflexion is even improved.

Thalassa PLA

Color change

Polyester floor-standing enclosures
Introduction

> The **floor-standing enclosures** are made from **polyester reinforced with fibreglass**, moulded by hot compression. High resistance to corrosion in harsh environments, it maintains its mechanical and insulation properties.

PB502646-47



Bigger dimensions

The new options with **2000 mm** height end **620 mm** depth have been created to feet industry and infrastructure demands for motor control, power distribution, electronics or telecom applications.

PLAT version

PB502890-33



Ventilation
Open top part with canopy allowing for ventilation.

PB502891-33



Easy
Various bosses for M8 inserts.

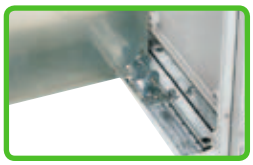
PLAZ version

PB502892-32



Open bottom
Big open bottom to be mounted directly on the floor or on a plinth.

PB502893-32



Smart
Plain mounting plate installed on step slides and compulsory adapter plates in all the enclosures with open bottom part.

PLAZT version

PB502894-32



Easy
Door opening to 180°.

PB502895-32



Resistant
Anti-lever security system.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 480 for details or consult our web site www.schneider-electric.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Color change

Polyester floor-standing enclosures
Characteristics

Class II



Characteristics	PLA version	PLAT version	PLAZ version	PLAZT version
	Completely sealed enclosure	**Enclosure with ventilated canopy**	**Enclosure with open bottom**	**Enclosure with open bottom and ventilated canopy**
	■ Enclosure obtained by assembling: □ 1 sealed top part, □ 1 sealed bottom part, □ 2 side parts, □ 1 or 2 rear panels (according to width), □ 1 or 2 doors (according to width). ■ Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. ■ Door opening to 120°.	■ Enclosure obtained by assembling: □ 1 open top part with canopy, □ 1 sealed bottom part, □ 2 side parts, □ 1 or 2 rear panels (according to width), □ 1 or 2 doors (according to width). ■ Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. ■ Door opening to 120°.	■ Enclosure obtained by assembling: □ 1 sealed top part, □ 1 plinth-type open bottom part, □ 2 side parts, □ 1 or 2 rear panels (according to width), □ 1 or 2 doors (according to width). ■ Locking system with handle with a 5 mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. ■ Door opening to 120°.	■ Enclosure obtained by assembling: □ 1 open top part with canopy, □ 1 plinth-type open bottom part, □ 2 side parts, □ 1 or 2 rear panels (according to width), □ 1 or 2 doors (according to width). ■ Locking system with handle with a 5 mm double-bar insert block. Other blocks with inserts or barrels and keys optionally available. ■ Door opening to 180°. ■ Anti-lever system to prevent forcing of the door.
Material	Polyester reinforced with fibreglass			
Finish	Moulded by hot compression: the pieces have an excellent finish on both sides and can include numerous bosses for accommodating inserts and mounting or cable management accessories			
Colour	RAL 7035 grey*			
Ingress protection rating	IP65 according to IEC 60529	■ IP44 according to IEC 60529 ■ IP54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately	IP54 according to IEC 60529	■ IP44 according to IEC 60529 ■ IP54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately
Mechanical protection rating	■ IK10 (20 joules) plain door - IEC62262 ■ IK08 (5 joules) glazed door			
Insulation	Class II according to IEC 60950-1			
Certifications	■ UL 508A/CAN-CSA 22 □ single door: Nema types 1, 2, 3, 3R, 3S, 4, 4X, 5, 12 and 13 □ double door: Nema types 1, 2, 12 and 13 ■ Marine ■ IEC 62208 ■ Environment: the factory complies with ISO 14 001 (Environmental management and ISO 50 001 (Energy management system)	■ 62208 ■ Environment: the factory complies with ISO 14 001 (Environmental management) and ISO 50 001 (Energy management system)		
Installation	■ Indoor use only. For outdoor use, must install a canopy	■ Outdoor or indoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure		
	■ Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page 190 ■ Possibility of fixing on a semi-embedded plinth, see page 190 ■ Optional wall-fixing lugs		■ The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page 192, or else it is installed on a semi-embedded plinth, see page 192	
Options	Anti-posting door upon request			

** RAL 7035 from 2016.*

> PHD - Applicative and customised solutions
See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 366.

Thalassa PLA

Color change

Polyester floor-standing enclosures
Dimensions

PLA PLAT PHD

Sealed enclosure or enclosure with ventilated canopy

For enclosures without canopy, please just disregard the related 38 mm.



New dimensions
2000 mm height
620 mm depth

Life Is On Schneider Electric

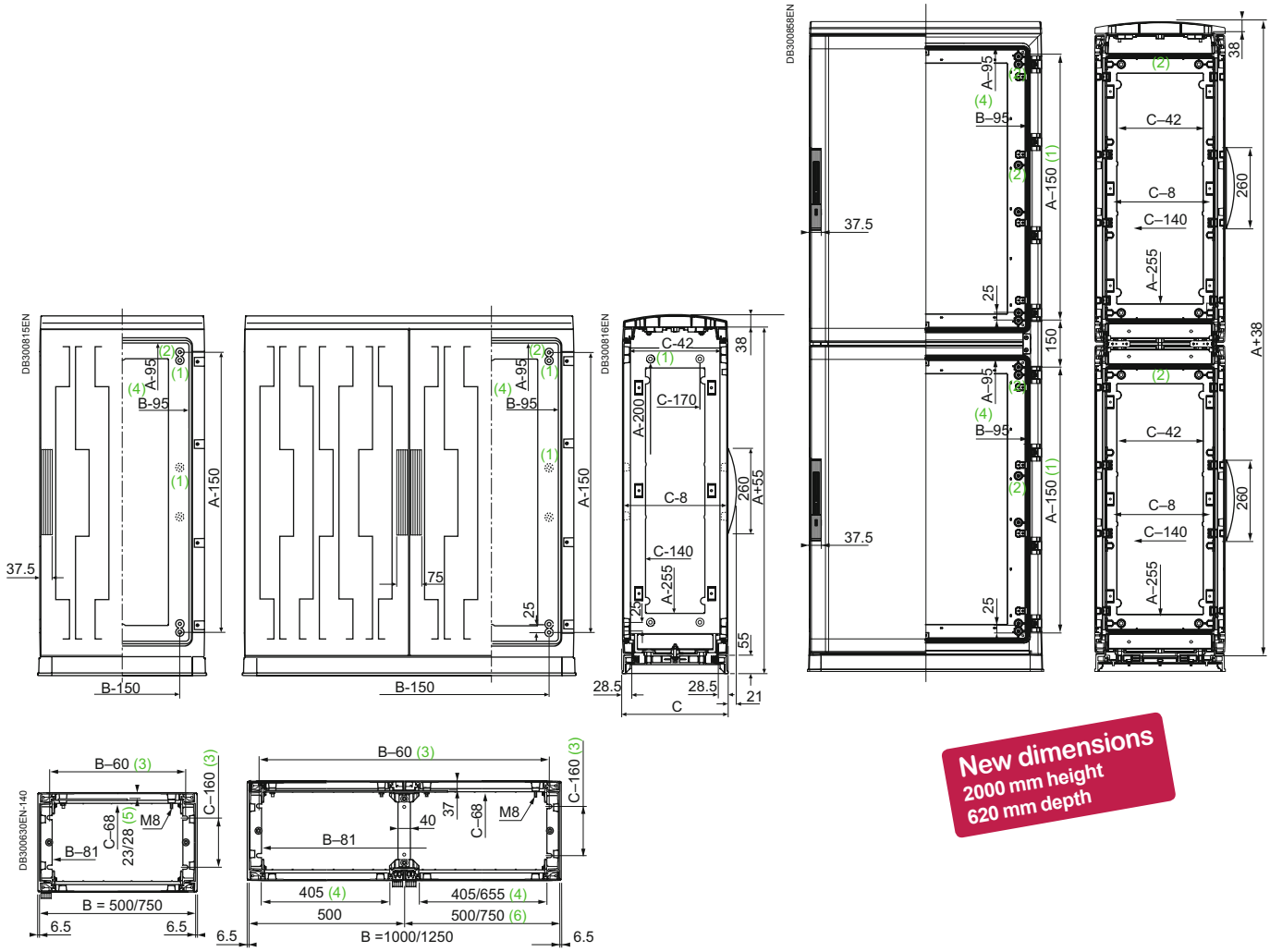
Color change

Polyester floor-standing enclosures
Dimensions

PLAZ PLAZT PHD

Enclosures with open bottom - plinth type
With or without ventilated canopy

For enclosures without canopy, please just disregard the related 38 mm



New dimensions
2000 mm height
620 mm depth

(1) 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
*(2) Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:*
– On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
– On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.
(3) Dimensions for fixing on the floor or on a plinth.
(4) Entry dimensions, door open.
(5) Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
(6) With a width of 1250 mm in standard supply, 500-mm door on the left and 750-mm door on the right.

Thalassa PLA

Color change

Polyester floor-standing enclosures
Selection guide

Indoor and Outdoor
For outdoor use, must install a canopy.

IP65 or IP54

PLA





PLAZ



New dimensions
2000 mm height
620 mm depth

Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54
References of enclosures with door						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Glazed	Plain
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G
		420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G
	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G
		420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G
	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G
		420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G
	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G
		420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G
750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
		420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
	750	320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G
		420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G
		620*	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G
	1000	320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G
		420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G
	1250	320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G
		420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G
1000	500	320	1	NSYPLA1053G	NSYPLA1053TG	NSYPLAZ1053G
		420	1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G
	750	320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G
		420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G
	1000	320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G
		420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G
	1250	320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G
		420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G
1250	500	320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G
		420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
	750	320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
		420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G
		620*	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G
	1000	320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G
		420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G
	1250	320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G
		420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G
		620*	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G
1500	500	320	1	NSYPLA1553G	NSYPLA1553TG	NSYPLAZ1553G
		420	1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G
	750	320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G
		420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G
		620*	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G
	1000	320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G
		420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G
	1250	320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G
		420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G
		620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G
2000*	750	420	2**	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

** Dimensions available after second half of 2016.*
*** Two doors in vertical.*

PHD - Applicative and customised solutions
See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 366.

Color change

Polyester floor-standing enclosures
Selection guide

IP44

PLAT



PLAZT



New dimensions
2000 mm height
620 mm depth

Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44
References of enclosures with door					
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Plain
500	500	320	1	NSYPLAT553G	NSYPLAZT553G
		420	1	NSYPLAT554G	NSYPLAZT554G
	750	320	1	NSYPLAT573G	NSYPLAZT573G
		420	1	NSYPLAT574G	NSYPLAZT574G
	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G
		420	2	NSYPLAT5104G	NSYPLAZT5104G
	1250	320	2	NSYPLAT5123G	NSYPLAZT5123G
		420	2	NSYPLAT5124G	NSYPLAZT5124G
750	500	320	1	NSYPLAT753G	NSYPLAZT753G
		420	1	NSYPLAT754G	NSYPLAZT754G
	750	320	1	NSYPLAT773G	NSYPLAZT773G
		420	1	NSYPLAT774G	NSYPLAZT774G
		620*	1	NSYPLAT776G	NSYPLAZT776G
	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G
		420	2	NSYPLAT7104G	NSYPLAZT7104G
	1250	320	2	NSYPLAT7123G	NSYPLAZT7123G
		420	2	NSYPLAT7124G	NSYPLAZT7124G
1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
		420	1	NSYPLAT1054G	NSYPLAZT1054G
	750	320	1	NSYPLAT1073G	NSYPLAZT1073G
		420	1	NSYPLAT1074G	NSYPLAZT1074G
	1000	320	2	NSYPLAT10103G	NSYPLAZT10103G
		420	2	NSYPLAT10104G	NSYPLAZT10104G
	1250	320	2	NSYPLAT10123G	NSYPLAZT10123G
		420	2	NSYPLAT10124G	NSYPLAZT10124G
1250	500	320	1	NSYPLAT1253G	NSYPLAZT1253G
		420	1	NSYPLAT1254G	NSYPLAZT1254G
	750	320	1	NSYPLAT1273G	NSYPLAZT1273G
		420	1	NSYPLAT1274G	NSYPLAZT1274G
		620	1	NSYPLAT1276G	NSYPLAZT1276G
	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G
		420	2	NSYPLAT12104G	NSYPLAZT12104G
	1250	320	2	NSYPLAT12123G	NSYPLAZT12123G
		420	2	NSYPLAT12124G	NSYPLAZT12124G
		620*	2	NSYPLAT12126G	NSYPLAZT12126G
1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
		420	1	NSYPLAT1554G	NSYPLAZT1554G
	750	320	1	NSYPLAT1573G	NSYPLAZT1573G
		420	1	NSYPLAT1574G	NSYPLAZT1574G
		620*	1	NSYPLAT1576G	NSYPLAZT1576G
	1000	320	2	NSYPLAT15103G	NSYPLAZT15103G
		420	2	NSYPLAT15104G	NSYPLAZT15104G
	1250	320	2	NSYPLAT15123G	NSYPLAZT15123G
		420	2	NSYPLAT15124G	NSYPLAZT15124G
		620*	2	NSYPLAT15126G	NSYPLAZT15126G
2000*	750	420	2**	NSYPLAT2074G	NSYPLAZT2074G

** Dimensions available after second half of 2016.*
*** Two doors in vertical.*

PHD - Applicative and customised solutions
See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 366.

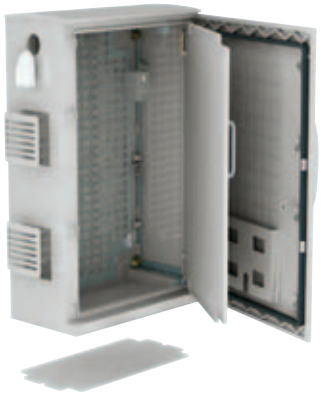
Thalassa PLA

Color change

Polyester floor-standing enclosures

Specific accessories overview

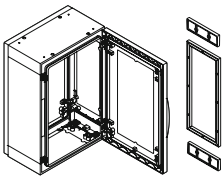
PB502902-90



Composition accessories

Coupling kits

DB300633-52



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Fixing

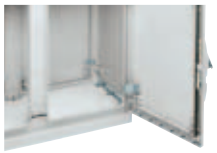
PB502903-43



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Cable-entry

PB502904-34



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Base accessories

PB502905-29



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Door

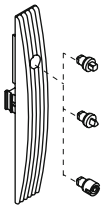
PB502906-19



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Locking system

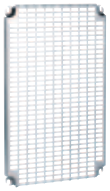
DB300647-12



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Installation accessories

PB500102-24



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Modular distribution accessories

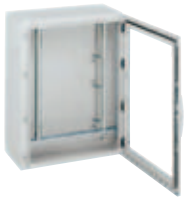
PB502907-28



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19” chassis

PB502908-28



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Anti-burglary accessory

PB502694-20



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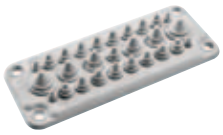
Color change

Polyester floor-standing enclosures
Common accessories overview

Cable management

Cable management

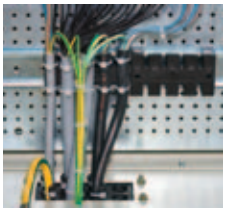
PB502492-29



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Cable holding

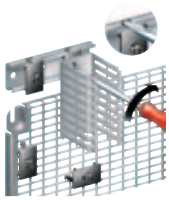
PB500966-40



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Cable ducting

PB500958-22



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Thermal management

Heaters

PB502503-29



Page 540

Ventilation

PB501044-26



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Cooling units

PB502614-15



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Thermal control

PB501162-19



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Fixing accessories

Rails

PB500177



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Composition accessories

VDI accessories and fixings

PB500189-17

PB500190-29

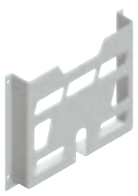


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Other accessories

Document pocket

PB502659-18



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Thalassa PLA

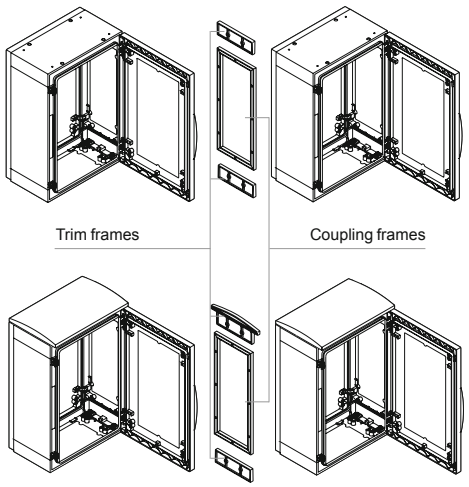
Color change

Polyester floor-standing enclosures
Specific accessories

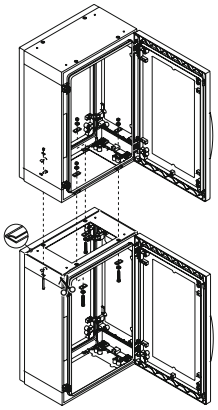
Coupling kits

Characteristics	Horizontal coupling kits*			Vertical coupling kit
	■ For coupling 2 enclosures side by side. ■ Coupling frame kit: made up of a coupling kit and the fixings required for installation. ■ Trim kit: made up of 2 frames for aesthetic fitting of the 2 coupled enclosures.			■ For coupling 2 enclosures on top of one another. ■ Kit made up of 3.5 m of adhesive seal and the fixings required for mounting.
Ingress protection rating	IP55 at the coupling point			IP55 at the coupling point
For enclosure	**Coupling frame kit for enclosure**			
Height (mm)	**Depth 320 mm**	**Depth 420 mm**	**Depth 620 mm**	
500	**NSYMUPLA53G**	**NSYMUPLA54G**	-	**NSYUVPLA**
750	**NSYMUPLA73G**	**NSYMUPLA74G**	**NSYMUPLA76G**	
1000	**NSYMUPLA103G**	**NSYMUPLA104G**	-	
1250	**NSYMUPLA123G**	**NSYMUPLA124G**	**NSYMUPLA126G**	
1500	**NSYMUPLA153G**	**NSYMUPLA154G**	**NSYMUPLA156G**	
2000	-	**NSYMUPLA204G**	-	
For enclosure	**Trim kit for enclosure**			
	Depth 320 mm	**Depth 420 mm**		
Without canopy	**NSYSUPLA3G**	**NSYSUPLA4G**		
With canopy	**NSYSUPLA3TG**	**NSYSUPLA4TG**		

DB300633-60



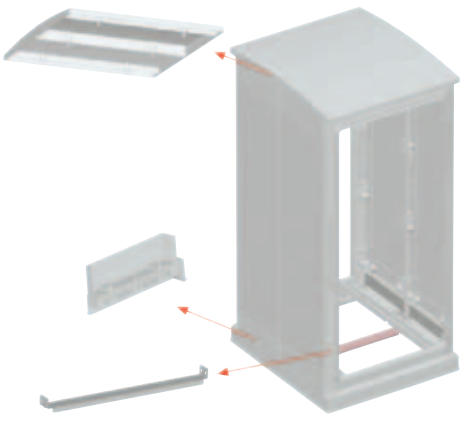
DB300634-27



** Not valid for coupling 2 enclosures using ZZ or ZH type plinth.*

Enhanced depth enclosure

PB502925-69



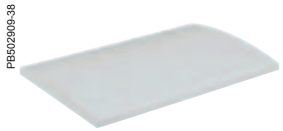
■ After industrial machining, the frames of the standard enclosures are coupled in the factory to obtain enhaced depth floor-standing enclosures.
■ The internal volume of the standard enclosures remains unaffected.
■ Possible for the 4 enclosure versions, in particular for 19" applications with widths of 750 and 1250 mm.
■ IP44 in the version with ventilated canopy, IP54 for the other versions.
■ A rear door can be installed in the coupled enclosures.
Option of installing 2 sets of step slides (at the front and at the rear).
■ Supply or installation in the enclosures of a 19" chassis with side trim plate installed on the step slides:
□ 19 U, height 1000 mm,
□ 23 U, height 1250 mm,
□ 25 U, height 1500 mm.

Color change

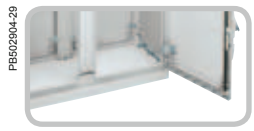
Polyester floor-standing enclosures
Specific accessories

Fixing, cable-entry and other accessories

PLAZ PLAZT

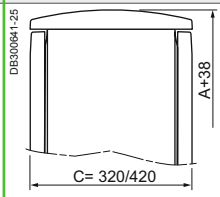


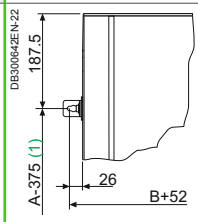




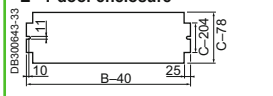
Characteristics	Canopy	Wall-fixing lugs	Cable-entry plate
	■ It can be installed in all enclosure models. ■ High resistance to impacts, temperature and bad weather. ■ Increases the height (A) of the enclosure by 38 mm, without modifying its width or depth.	Drilling positions and marks inside the side panels.	■ Easy drilling in specific customised version. ■ Incompatibility with: adapter plates, step slides, internal door and chassis for modular distribution.
Material	Polyester reinforced with fibreglass	Passivated zinc-coated	Polyester reinforced with fibreglass
Colour	RAL 7035 grey*	-	RAL 7035 grey*
Thickness	-	-	40/10e mm
Ingress protection rating	-	-	IP00
Installation	Essential for outdoor use	-	-
Fixing	-	■ Fixing on the sides by 4 or 6 lugs in horizontal position (6 lugs for enclosures with height ≥ 1000 mm) ■ 10 mm fixing distance on the rear of the enclosure plane	-
Maximum load	-	180 kg	-
Supply	Delivered with the fixings required for installation	Set of 6 lugs and fixings	Delivered with the fixings required for installation

Width (mm)	Depth (mm) (C)	References		
500	320	**NSYTJPLA53G**	**NSYFMPLA**	**NSYECPLAZ53G**
750	320	**NSYTJPLA73G**		**NSYECPLAZ73G**
1000	320	**NSYTJPLA103G**		**NSYECPLAZ103G**
1250	320	**NSYTJPLA123G**		**NSYECPLAZ123G**
500	420	**NSYTJPLA54G**		**NSYECPLAZ54G**
750	420	**NSYTJPLA74G**		**NSYECPLAZ74G**
	620	**NSYTJPLA76G**		**NSYECPLAZ76G**
1000	420	**NSYTJPLA104G**		**NSYECPLAZ104G**
1250	420	**NSYTJPLA124G**		**NSYECPLAZ124G**
	620	**NSYTJPLA126G**		**NSYECPLAZ126G**

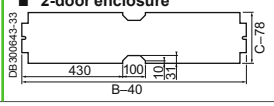




Cable-entry plate
■ **1-door enclosure**



■ **2-door enclosure**



(1) For enclosures with height ≥ 1000 mm, 1 extra lug at the centre of the A-375 side.
** RAL 7035 from 2016.*

PLAT PLAZT





Characteristics	Grille for IP54 instead of IP44	Renovation and anti-graffiti paint		
	1 grille for 500 and 750 mm wide enclosures, 2 grilles for 1000 and 1250 mm wide enclosures. Prevents the entry of dust and provides the enclosure with IP 5X protection at the top. Maintains the possibility of ventilation.	2-component paint system, specially formulated for polyester enclosures. Renews enclosures and allows easy removal of graffiti. Paint composed of: base (80 %) and hardener (20 %).		Solvent bottles to be used as a paint thinner or to clean brushes.
Colour	RAL 7035 grey	RAL 7035 grey		-
Installation	It is installed from the inside in the upper ventilation opening	-		-
Supply	Delivered with G2 M1 standard synthetic filter, see ClimaSys section	1 kg: □ 800 g tin of base paint □ 200 g tin of hardener (Coverage = 5 m²)	5 kg: □ 4 kg tin of base paint □ 1 kg tin of hardener (Coverage = 25 m²)	500 g
References				
	NSYCAG125LPF	**NSYAUPG1G**	**NSYAUPG5G**	**NSYAUPGS**

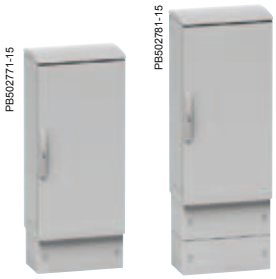
Thalassa PLA

Color change

Polyester floor-standing enclosures
Specific accessories

PLA PLAT

Base accessories



Characteristics

ZA plinths

■ The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws, which can be accessed from the outside, make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation.
■ In stacked position, the bottom plinth can be partially buried.
■ It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.

Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey*
Ingress protection rating	IP44
Mechanical protection rating	IK10
Standards	IEC 61439-1
Fixing	Four floor-attachment points; the symmetry of the parts prevents incorrect assembly
Supply	The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths

For floor-standing enclosure				Plinth		Height 200 mm	Cable-gland area	
Height (mm)	Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)
500 to 1500	500	320	**NSYPLA(T)•53G**	494	250	**NSYZA253G**	360	205
500 to 1500	750	320	**NSYPLA(T)•73G**	744	250	**NSYZA273G**	610	205
500 to 1500	1000	320	**NSYPLA(T)•103G**	994	250	**NSYZA2103G**	860	205
500 to 1500	1250	320	**NSYPLA(T)•123G**	1244	250	**NSYZA2123G**	1100	205
500 to 1500	500	420	**NSYPLA(T)•54G**	494	350	**NSYZA254G**	360	305
500 to 1500	750	420	**NSYPLA(T)•74G**	744	350	**NSYZA274G**	610	305
500 to 1500	1000	420	**NSYPLA(T)•104G**	994	350	**NSYZA2104G**	860	305
500 to 1500	1250	420	**NSYPLA(T)•124G**	1244	350	**NSYZA2124G**	1110	305
500 to 2000	750	620	**NSYPLA(T)•76G**	744	550	**NSYZA276G**	610	505
500 to 2000	1250	620	**NSYPLA(T)•126G**	1244	550	**NSYZA2126G**	1110	505

Cable supporting cross-rail



■ **Description:** the lateral sides of the plinth are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
■ **Supply:** the reference of the cross-rail includes all the elements required for assembly.

For plinth		Cross-rail
NSYZA253G	NSYZA254G	**NSYAC320**
NSYZA273G	NSYZA274G	**NSYAC560**
NSYZA2103G	NSYZA2104G	**NSYAC840**
NSYZA2123G	NSYZA2124G	**NSYAC1080**

Kit for IP54

Description: makes it possible to obtain IP 54 for the plinth and the plinth-enclosure connection.

Reference

NSYAEPZA

Feet for partially buried installation



■ **Description:** allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth.
■ **Supply:** the kit is made up of four feet and fixings.

Reference

NSYAEBFZ

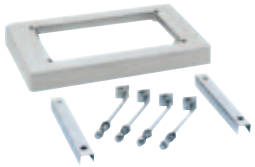
** RAL 7035 from 2016.*

Color change

Polyester floor-standing enclosures
Specific accessories

Base accessories

PB502905-33

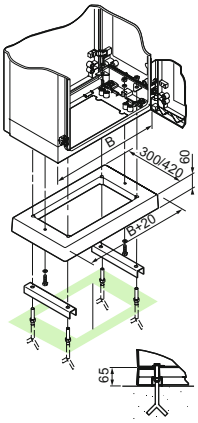


N plinths

Designed to be installed under the closed-bottom enclosures (version PLA or PLAT).

Polyester reinforced with fibreglass	
RAL 7035 grey*	
-	
-	
-	
-	
Delivered with fixings required for installation	
Height 60 mm	
References	
NSYZNPLA53G	
NSYZNPLA73G	
NSYZNPLA103G	
NSYZNPLA123G	
NSYZNPLA54G	
NSYZNPLA74G	
NSYZNPLA104G	
NSYZNPLA124G	
-	
-	

DB300635-25

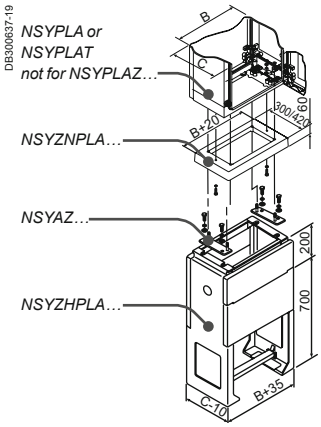


Connectors between plinths

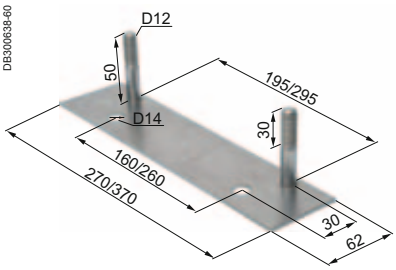
- **Description:** designed to allow the adaptation of a closed-bottom enclosure + N plinth on a H-type partially buried plinth.
- **Supply:** 2 parts for adapting the centre-to-centre distances.

For floor-standing enclosure Depth (mm)	Description	References
320	Linking parts for N plinth on 320-mm H plinth	**NSYAZ3PLA**
420	Linking parts for N plinth on 420-mm H plinth	**NSYAZ4PLA**

DB300637-19



DB300638-60



Thalassa PLA

Color change

Polyester floor-standing enclosures
Specific accessories

PLAZ PLAZT

Base accessories



Characteristics

ZZ plinths (1)

- The frontal parts (front and rear) are removed from the inside. Removing them makes it easier to install the cables.
- The 500-mm plinth can be partially buried.
- It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.

Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey (2)
Ingress protection rating	IP44
Mechanical protection rating	IK10
Standards	IEC 61439-1
Fixing	Four floor-attachment points; the symmetry of the parts prevents incorrect assembly
Supply	The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth

For floor-standing enclosure				Plinth		Cable-gland area		Height 200 mm	Height 500 mm
Height (mm)	Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	Width (mm)	Depth (mm)	References	References
500 to 1500	500	320	**NSYPLAZ(T)●53G**	535	310	419	252	**NSYZZ253G**	**NSYZZ553G**
500 to 1500	750	320	**NSYPLAZ(T)●73G**	785	310	669	252	**NSYZZ273G**	**NSYZZ573G**
500 to 1500	1000	320	**NSYPLAZ(T)●103G**	1035	310	919	252	**NSYZZ2103G**	**NSYZZ5103G**
500 to 1500	1250	320	**NSYPLAZ(T)●123G**	1285	310	1169	252	**NSYZZ2123G**	**NSYZZ5123G**
500 to 1500	500	420	**NSYPLAZ(T)●54G**	535	410	419	352	**NSYZZ254G**	**NSYZZ554G**
500 to 1500	750	420	**NSYPLAZ(T)●74G**	785	410	669	352	**NSYZZ274G**	**NSYZZ574G**
500 to 1500	1000	420	**NSYPLAZ(T)●104G**	1035	410	919	352	**NSYZZ2104G**	**NSYZZ5104G**
500 to 1500	1250	420	**NSYPLAZ(T)●124G**	1285	410	1169	352	**NSYZZ2124G**	**NSYZZ5124G**
500 to 2000	750	620	**NSYPLAZ(T)●76G**	785	610	669	552	**NSYZZ276G**	-
500 to 2000	1250	620	**NSYPLAZ(T)●126G**	1285	610	1169	552	**NSYZZ2126G**	-

Cable supporting cross-rail



- **Description:** the lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
- **Supply:** the reference of the cross-rail includes all the elements required for assembly.

For plinth				Cross-rail
NSYZZ253G	NSYZZ254G	NSYZZ553G	NSYZZ554G	**NSYAC360**
NSYZZ273G	NSYZZ274G	NSYZZ573G	NSYZZ574G	**NSYAC600**
NSYZZ2103G	NSYZZ2104G	NSYZZ5103G	NSYZZ5104G	**NSYAC840**
NSYZZ2123G	NSYZZ2124G	NSYZZ5123G	NSYZZ5124G	**NSYAC1120**

Outside opening kit

Description: the 200-mm front part of the 200- and 500-mm plinths can be opened from the outside, after installing a kit made up of two locks with double-bar insert.

Reference

NSYAELZ

Feet for partially buried installation



- **Description:** allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth.
- **Supply:** the reference includes a kit made up of four feet and fixings.

Reference

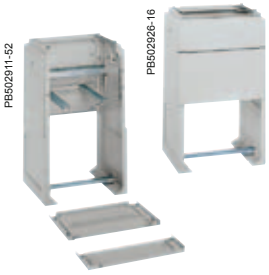
NSYAEBFZ

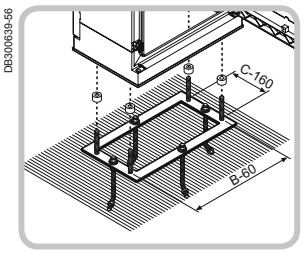
(1) The coupling kit NSYMUPLA••• is not valid for enclosures using ZZ or ZH type plinths.
(2) RAL 7035 from 2016.

Color change

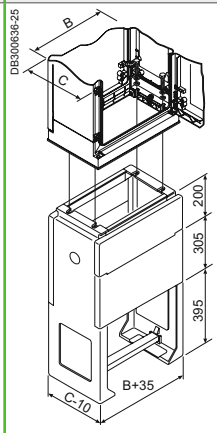
Polyester floor-standing enclosures
Specific accessories

Base accessories





	Buriable H plinths (3)	Floor-standing frame
	■ Front panel with a height of 170 mm, retractable, providing easy access to the inside. ■ Fixed front panel with a height of 305 mm, corresponding to the finished floor height area. ■ The height above the floor after building-in varies between 200 and 500 mm. ■ A metal rail helps to fix the entry cables. ■ Lateral uprights with pre-knock-out auxiliary output with Ø Pg 36 (48 mm). ■ A pre-knock-out area is provided at the bottom of the lateral uprights for cable entry, if necessary.	Frame for direct fixing on the floor for installing open-bottom enclosures (version PLAZ or PLAZT).
	Polyester reinforced with fibreglass	Passivated zinc-coated steel
	RAL 7035 grey (2)	-
	-	-
	-	-
	-	-
	-	-
	Delivered with the fixings required for installation	Delivered with fixings required for installation
	Height 900 mm	
	References	**References**
	NSYZHPLA53G	**NSYMFPLAZ53**
	NSYZHPLA73G	**NSYMFPLAZ73**
	NSYZHPLA103G	**NSYMFPLAZ103**
	NSYZHPLA123G	**NSYMFPLAZ123**
	NSYZHPLA54G	**NSYMFPLAZ54**
	NSYZHPLA74G	**NSYMFPLAZ74**
	NSYZHPLA104G	**NSYMFPLAZ104**
	NSYZHPLA124G	**NSYMFPLAZ124**
		NSYMFPLAZ76
		NSYMFPLAZ126

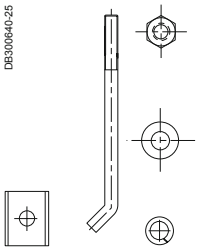


Floor-fixing studs

■ **Description:** set of four threaded parts and fixings, for fixing the enclosures on concrete plinths.

Reference

NSYFSPLAZ



(3) Not valid for coupling 2 enclosures using ZZ or ZH type plinth.

Thalassa PLA

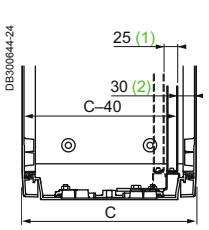
Color change

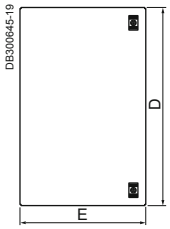
Polyester floor-standing enclosures
Specific accessories

Door









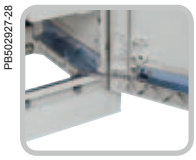
Characteristics	Internal door			
	■ Designed for direct installation in enclosures with sealed bottom part. In the enclosures with the bottom part open, installation can be performed by ordering the necessary adapter plates, ref. **NSYPTZ●●●**. ■ 2 depthwise mounting positions (1) according to the chosen M8 impressions, on the top and bottom parts of the enclosure, for fixing. ■ Lock with 5-mm double-bar inserts. ■ Incompatibility with: modular distribution chassis, 19" chassis, cable-entry plate and door retainer, ref. **NSYRETPLAU**.			
Material	Aluminium			
Colour	RAL 7035 grey*			
Supply	Delivered with M8 brass inserts and fixings			
For enclosure (mm)	**Internal door dimensions**		**Weight (kg)**	**References**
Height	**Width**	**D**	**E**		
500	500	398	398	1.6	**NSYPAPLA55G**
	750	398	648	2.2	**NSYPAPLA57G**
	1000	398	796 (2 x 398)	3.2 (2 x 1.6)	2 x **NSYPAPLA55G**
	1250	398	1046 (398 + 648)	3.8 (1.6 + 2.2)	**NSYPAPLA55G** + **NSYPAPLA57G**
750	500	648	398	2.2	**NSYPAPLA75G**
	750	648	648	3.1	**NSYPAPLA77G**
	1000	648	796 (2 x 398)	4.4 (2 x 2.2)	2 x **NSYPAPLA75G**
	1250	648	1046 (398 + 648)	5.3 (2.2 + 3.1)	**NSYPAPLA75G** + **NSYPAPLA77G**
1000	500	898	398	2.8	**NSYPAPLA105G**
	750	898	648	4.1	**NSYPAPLA107G**
	1000	898	796 (2 x 398)	5.4 (2 x 2.8)	2 x **NSYPAPLA105G**
	1250	898	1046 (398 + 648)	6.9 (2.8 + 4.1)	**NSYPAPLA105G** + **NSYPAPLA107G**
1250	500	1148	398	3.4	**NSYPAPLA125G**
	750	1148	648	5	**NSYPAPLA127G**
	1000	1148	796 (2 x 398)	6.8 (2 x 3.4)	2 x **NSYPAPLA125G**
	1250	1148	1046 (398 + 648)	8.4 (3.4 + 5)	**NSYPAPLA125G** + **NSYPAPLA127G**
1500	500	1398	398	4	**NSYPAPLA155G**
	750	1398	648	6	**NSYPAPLA157G**
	1000	1398	796 (2 x 398)	8 (2 x 4)	2 x **NSYPAPLA155G**
	1250	1398	1046 (398 + 648)	10 (4 + 6)	**NSYPAPLA155G** + **NSYPAPLA157G**

(1) Two positions for depthwise installation.
(2) The 2nd position moves the position of the internal door back by 25 mm.
** RAL 7035 from 2016.*

Door accessories



Opening to 110°.



With 2 positions, 90° and 120°.

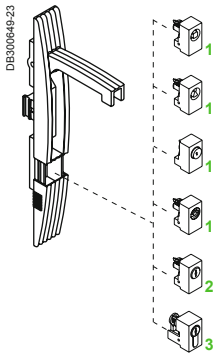


Characteristics	Door retainer		Door switch
	■ Designed to adapt directly to the enclosure. ■ Can be installed on a door opening to the left or right indistinctly.		NC + NO switch. Incompatible with the rear door and modular distribution chassis.
Material	Galvanised steel		-
Supply	Delivered with the fixings required for installation		Switch, fixing bracket and fixings
	PLA, PLAZ, PLAT versions	**For all versions***	**Reference**
	NSYRETPLA	**NSYRETPLAU**	**NSYSNLPLA**
	** Note: ref. **NSYRETPLAU** is incompatible with internal doors, modular distribution chassis, step slides, adapter plates and cable-entry plates.* *In the event of incompatibility, use ref. **NSYRETPLA**.*		

Color change

Polyester floor-standing enclosures
Specific accessories

Locking system



1 Block with form insert.
2 Block with cylindrical barrel.
3 Block with semi-cylindrical barrel.

Characteristics	Lock with handle
	Ergonomic locking system with pivoting handle installed as standard on enclosures with ventilated canopy and/or open bottom part, with a 5 mm double-bar insert block. ■ Fire resistance: 650°C.
Material	PA6 charged with 30 % fibreglass
Colour	RAL 7035 grey*
Mechanical protection rating	IK10

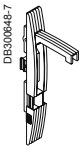
Options

Options for changing the form-insert blocks (supplied with the required operating key)	References
Block, 6 mm square insert	**NSYINS61**
Block, 7 mm square insert	**NSYINS71**
Block, 8 mm square insert	**NSYINS81**
Block, 6.5 mm triangular insert	**NSYINT61**
Block, 8 mm triangular insert	**NSYINT81**
Push-button	**NSYTSPLA**
Double bar	**NSYINDB51**

Options for changing the blocks with cylindrical barrels			
Type of key	**References**	**Type of key**	**References**
405 E key	**NSYIN405E1**	3113 A key	**NSYIN3113A1**
421 E key	**NSYIN421E1**	3122 E key	**NSYIN3122E1**
455 key	**NSYIN4551**	3123 A key	**NSYIN3123A1**
1242 E key	**NSYIN1242E1**	3131A1 key	**NSYIN3131A1****
1332 E key	**NSYIN1332E1**	3133 A key	**NSYIN3133A1**
2131 A key	**NSYIN2131A1**	3422 E key	**NSYIN3422E1**
2132 A key	**NSYIN2132A1**	3432 E key	**NSYIN3432E1**
2331 A key	**NSYIN2331A1**	6101 key	**NSYIN6101****
2433 A key	**NSYIN2433A1**	EDF 1300 key	**NSYINF1301**
2452 E key	**NSYIN2452E1**	EDF 1400 key	**NSYINF1401**

** New

Options for changing the blocks with semi-cylindrical barrels	References
1242 E key	**NSYIN1242E2**
DIN adapter	**NSYINDIN2**
JIS key	**NSYINKJIS2**
Reinforced key	**NSYINKR2**
FAC key	**NSYINKFAC2**

Options for changing the handle lock		References
 PB502914-38	Changing the handle for a handle including a padlocking device (Ø 10 mm) allowing the handle to be locked. The handle is delivered without barrel or insert block.	**NSYCBCMPLAG**
 DB300650-4	Options for changing the handle lock for a lock with an escutcheon and without handle, delivered without insert. The insert is to be chosen from the option table on the "Locks with escutcheon and without handle" column.	**NSYEBPLAG**
 DB300648-7	Spare handle lock without barrel or insert blocks. The insert or barrel are to be chosen from the option table.	**NSYEBMPLAG**

Padlocking device


PB502915-32

Padlocking accessory, preventing access to the lock-control insert.
Opening diameter: 14 mm.

Reference
NSYBCPLA

** RAL 7035 from 2016.*

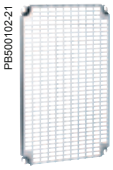
Thalassa PLA

Color change

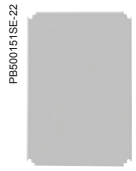
Polyester floor-standing enclosures
Specific accessories

Installation accessories

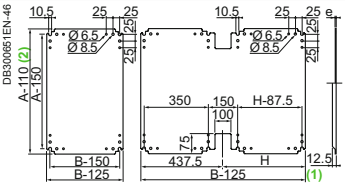


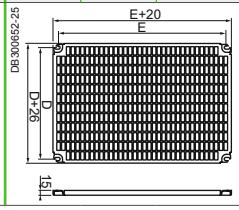


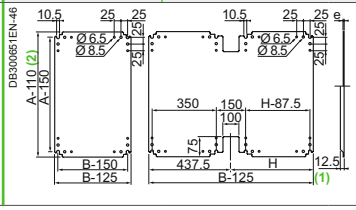




Characteristics		Metallic mounting plate							Insulating mounting plate	
		Plain mounting plate			Telequick mounting plate					
		■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 200). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately). ■ In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates.			■ Grille with 11 x 26 mm drill holes, with a step of 1 5 x 30 mm, for direct installation, with clip nuts, of all the devices with fixing at 2, 3 or 4 points, by screws with diameters of 3, 4, 5 or 6 mm. ■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 200). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).			■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 200). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately). ■ In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates.	
Material		Galvanised sheet-steel			Galvanised sheet-steel				Bakelite	Polyester
Finish		-			-				-	-
Colour		-			-				-	-
Thickness		25/10[e] mm			-				40/10[e] mm	■ 40/10[e] mm up to 700 mm height ■ 50/10[e] mm from 800 mm height
Maximum load		150 kg/m²			150 kg/m²				100 kg/m²	
Supply		-			-				1 mounting plate	
For enclosure (mm)		**Dimensions**		**References**	**Dimensions**			**References**	**References**	
Height (A)	**Width (B)**	**H (mm)**	**Surface (dm²)**		**E (mm)**	**D (mm)**	**Surface (dm²)**			
500	500	-	14	**NSYPMM55**	350	350	13	**NSYPMR55**	**NSYPMB55**	**NSYPMA55**
	750	-	24	**NSYPMM57**	350	600	23	**NSYPMR57**	**NSYPMB75**	**NSYPMA75**
	1000	437.5	32	**NSYPMM510**	350	2 x 350	26	2 x **NSYPMR55**	**NSYPMB510**	**NSYPMA510**
	1250	-	38	**NSYPMM55** + **NSYPMM75**	350	350 + 600	36	**NSYPMR55** + **NSYPMR57**	**NSYPMB55** + **NSYPMB75**	**NSYPMA55** + **NSYPMA75**
750	500	-	24	**NSYPMM75**	600	350	23	**NSYPMR75**	**NSYPMB75**	**NSYPMA75**
	750	-	40	**NSYPMM77**	600	600	38	**NSYPMR77**	**NSYPMB77**	**NSYPMA77**
	1000	437.5	54	**NSYPMM710**	600	2 x 350	46	2 x **NSYPMR75**	**NSYPMB710**	**NSYPMA710**
	1250	687.5	70	**NSYPMM712**	600	350 + 600	61	**NSYPMR75** + **NSYPMR77**	**NSYPMB712**	**NSYPMA712**
1000	500	-	33	**NSYPMM105**	850	350	32	**NSYPMR105**	**NSYPMB105**	**NSYPMA105**
	750	-	55	**NSYPMM107**	850	600	54	**NSYPMR107**	**NSYPMB107**	**NSYPMA107**
	1000	437.5	74	**NSYPMM1010**	850	2 x 350	64	2 x **NSYPMR105**	**NSYPMB1010**	**NSYPMA1010**
	1250	687.5	96	**NSYPMM1012**	850	350 + 600	86	**NSYPMR105** + **NSYPMR107**	**NSYPMB1012**	**NSYPMA1012**
1250	500	-	42	**NSYPMM125**	1100	350	42	**NSYPMR125**	**NSYPMB125**	**NSYPMA125**
	750	-	70	**NSYPMM127**	1100	600	70	**NSYPMR127**	**NSYPMB127**	**NSYPMA127**
	1000	437.5	96	**NSYPMM1210**	1100	2 x 350	84	2 x **NSYPMR125**	**NSYPMB1210**	**NSYPMA1210**
	1250	687.5	124	**NSYPMM1212**	1100	350 + 600	112	**NSYPMR125** + **NSYPMR127**	**NSYPMB1212**	**NSYPMA1212**
1500	500	-	51	**NSYPMM155**	1350	350	51	**NSYPMR155**	**NSYPMB155**	-
	750	-	85	**NSYPMM157**	1350	600	85	**NSYPMR157**	**NSYPMB157**	-
	1000	437.5	118	**NSYPMM1510**	1350	2 x 350	102	2 x **NSYPMR155**	**NSYPMB1510**	-
	1250	687.5	152	**NSYPMM1512**	1350	350 + 600	136	**NSYPMR155** + **NSYPMR157**	**NSYPMB1512**	-
2000	750	-	115	**NSYPMM207**	2 x 850	2 x 600	108	2 x **NSYPMR107**	2 x **NSYPMB107**	2 x **NSYPMA107**







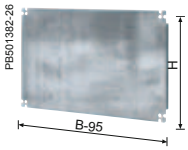
*(1) Reinforcing fold for steel mounting plate **NSYPMM1010** to **NSYPMM1512**.*
*(2) A-125 for references **NSYPMM1010** to **NSYPMM1512**, A-120 for the polyester mounting plate, ref. **NSYPMA•••**.*

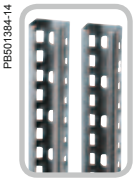
Color change

Polyester floor-standing enclosures
Specific accessories

Installation accessories









	Side mounting plates			Partial plain mounting plate		Technical uprights		Anti-burglary accessory	
	Polyester mounting plates fixed to the sides of the enclosure for additional installations. Installation on the M8 bosses by adding inserts, ref. **NSYTEX8**.			Direct fixing on the uprights, with the notched sliding nuts or pivoting nuts, see common accessories section.		■ Supports for fixing rails, perforated grilles and plain partial mounting plates. ■ Details in the common accessory section. ■ Fixing at the rear on the M8 inserts or on the step slides.		Anti-burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2. It keeps the Insulation Class II according to IEC 61439-1:2011.	
	Polyester			Galvanised sheet-steel		Zinc-coated steel		Steel with anti-corrosive coating	
	-			-		-		Structured finish, 100 % polyester powder	
	-			-		-		RAL 7035 grey	
	■ 40/10[e] mm up to 750 mm height ■ 50/10[e] mm from 800 mm height			25/10[e] mm		20/10[e] mm		-	
	100 kg/m²			150 kg/m²		-		-	
	Reference by unit. Order by multiples of 2			1 mounting plate		2 technical uprights		1	
	References			**References**		**Dimensions**	**References**	**References**	
	Enclosure depth			**247 mm height**	**397 mm height**	**(mm)**		**Depth 420 mm**	**Depth 620 mm**
	320 mm	**420 mm**	**620 mm**						
	NSYPMLA53	**NSYPMLA54**	-	-	-	-	-	-	-
	NSYPMLA53	**NSYPMLA54**	-	**NSYSPMP2575**	**-**			-	-
	NSYPMLA53	**NSYPMLA54**	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA53	**NSYPMLA54**	-	-	-			-	-
	NSYPMLA73	**NSYPMLA74**	**NSYPMLA76**	-	-	625	**NSYTVR7**	-	-
	NSYPMLA73	**NSYPMLA74**	-	**NSYSPMP2575**	**-**			**NSYBGN774HD**	**NSYBGN776HD**
	NSYPMLA73	**NSYPMLA74**	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA73	**NSYPMLA74**	-	-	-			-	-
	NSYPMLA103	**NSYPMLA104**	-	-	-	875	**NSYTVR10**	**NSYBGN1054HD**	-
	NSYPMLA103	**NSYPMLA104**	-	**NSYSPMP2575**	**-**			**NSYBGN1074HD**	-
	NSYPMLA103	**NSYPMLA104**	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA103	**NSYPMLA104**	-	-	-			-	-
	NSYPMLA123	**NSYPMLA124**	**NSYPMLA126**	-	-	1125	**NSYTVR125**	**NSYBGN1254HD**	-
	NSYPMLA123	**NSYPMLA124**	-	**NSYSPMP2575**	-			**NSYBGN1274HD**	**NSYBGN1276HD**
	NSYPMLA123	**NSYPMLA124**	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA123	**NSYPMLA124**	-	-	-			**NSYBGN12124HD**	**NSYBGN12126HD**
	NSYPMLA153	-	-	-	-	1375	**NSYTVR15**	-	-
	NSYPMLA153	-	-	**NSYSPMP2575**	**-**			**NSYBGN1574HD**	**NSYBGN1576HD**
	NSYPMLA153	-	-	**NSYSPMP25100**	**NSYSPMP40100**			-	-
	NSYPMLA153	-	-	-	-			**NSYBGN15124HD**	**NSYBGN15126HD**
	-	2 x **NSYPMLA104**	-	**NSYSPMP2575**	-	1875	2 x **NSYTVR10**	**NSYBGN2074HD**	-
						Note: enclosures with widths of 1000 and 1250 allow the installation of 4 uprights to integrate 2 mounting plates of 500 mm or of 500 and 750 mm.			

Note: the diagrams above relate to the metal mounting plates. The mounting plates made from insulating material only have 4 or 8 main fixing points and the external dimensions of the diagrams.

Thalassa PLA

Color change

Polyester floor-standing enclosures
Specific accessories

Installation accessories



Characteristics		Modular distribution chassis*					
		■ Chassis for modular switchgear, installed directly in the sealed enclosures (PLA version). For installation in enclosures with open bottom part (PLAZ version) it is necessary to use a set of adapter plates (ref. **NSYPTZ●●●**). ■ Chassis made up of cover plates on a rigid structure. ■ Quick installation without fixings. ■ Distance between rail and front panel with adjustable depth from 40 to 85 mm. ■ System for identifying electrical circuits supplied. ■ Neutral/earth strip: 2 x 16 mm² + 5 x 6 mm² included in the standard offer. ■ Incompatibility with: cable-entry plate, internal door, door switch and door retainer (ref. **NSYRETPLAU**).					
Material		■ Rigid structure: galvanised-steel ■ Cover plates: self-extinguishing insulating					
Colour		Cover plates: RAL 7035 grey**					
Thickness		-					
Installation		-					
Maximum load		-					
For enclosure (mm)		**No. of doors**	**No. of rows**	**Rows for module**		**No. of plates**	**References**
Height (A)	**Width (B)**			**No.**	**No. of 18-mm modules**		
750	500	1	4	4	76	-	**NSYDLP76G**
		1	4	3	57	1	**NSYDLP57G**
	750	1	4	4	132	-	**NSYDLP132G**
		1	4	3	99	1	**NSYDLP99G**
	1000	2	4 + 4	4 + 4	152	-	2 x **NSYDLP76G**
		2	4 + 4	3 + 3	114	1 + 1	2 x **NSYDLP57G**
	1250	2	4 + 4	4 + 4	208	-	**NSYDLP76G** + **NSYDLP132G**
		2	4 + 4	3 + 3	156	1 + 1	**NSYDLP57G** + **NSYDLP99G**
1000	500	1	6	6	114	-	**NSYDLP114G**
		1	6	5	95	1	**NSYDLP95G**
	750	1	6	6	198	-	**NSYDLP198G**
		1	6	5	165	1	**NSYDLP165G**
	1000	2	6 + 6	6 + 6	228	-	2 x **NSYDLP114G**
		2	6 + 6	5 + 5	190	1 + 1	2 x **NSYDLP95G**
	1250	2	6 + 6	6 + 6	312	-	**NSYDLP114G** + **NSYDLP198G**
		2	6 + 6	5 + 5	260	1 + 1	**NSYDLP95G** + **NSYDLP165G**
1250	500	1	7	7	133	-	**NSYDLP133G**
		1	7	6	114	1	**NSYDLP114PG**
	750	1	7	7	231	-	**NSYDLP231G**
		1	7	6	198	1	**NSYDLP198PG**
	1000	2	7 + 7	7 + 7	266	-	2 x **NSYDLP133G**
		2	7 + 7	6 + 6	228	1 + 1	2 x **NSYDLP114PG**
	1250	2	7 + 7	7 + 7	364	-	**NSYDLP133G** + **NSYDLP231G**
		2	7 + 7	6 + 6	312	1 + 1	**NSYDLP114PG** + **NSYDLP198PG**
1500	500	1	9	9	171	-	**NSYDLP171G**
		1	9	8	152	1	**NSYDLP152G**
	750	1	9	9	297	-	**NSYDLP297G**
		1	9	8	264	1	**NSYDLP264G**
	1000	2	9 + 9	9 + 9	342	-	2 x **NSYDLP171G**
		2	9 + 9	8 + 8	304	-	2 x **NSYDLP152G**
	1250	2	9 + 9	9 + 9	468	1 + 1	**NSYDLP171G** + **NSYDLP297G**
		2	9 + 9	8 + 8	416	1 + 1	**NSYDLP152G** + **NSYDLP264G**

** Other modular distribution accessories on page 202.*
*** RAL 7035 from 2016.*

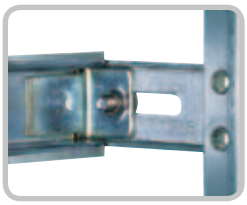
Color change

Polyester floor-standing enclosures
Specific accessories

PB502918-55



PB501388-41



Details of the depth adjustment.

PB502919-37



Detail from front-panel mounting.

PB502920-32



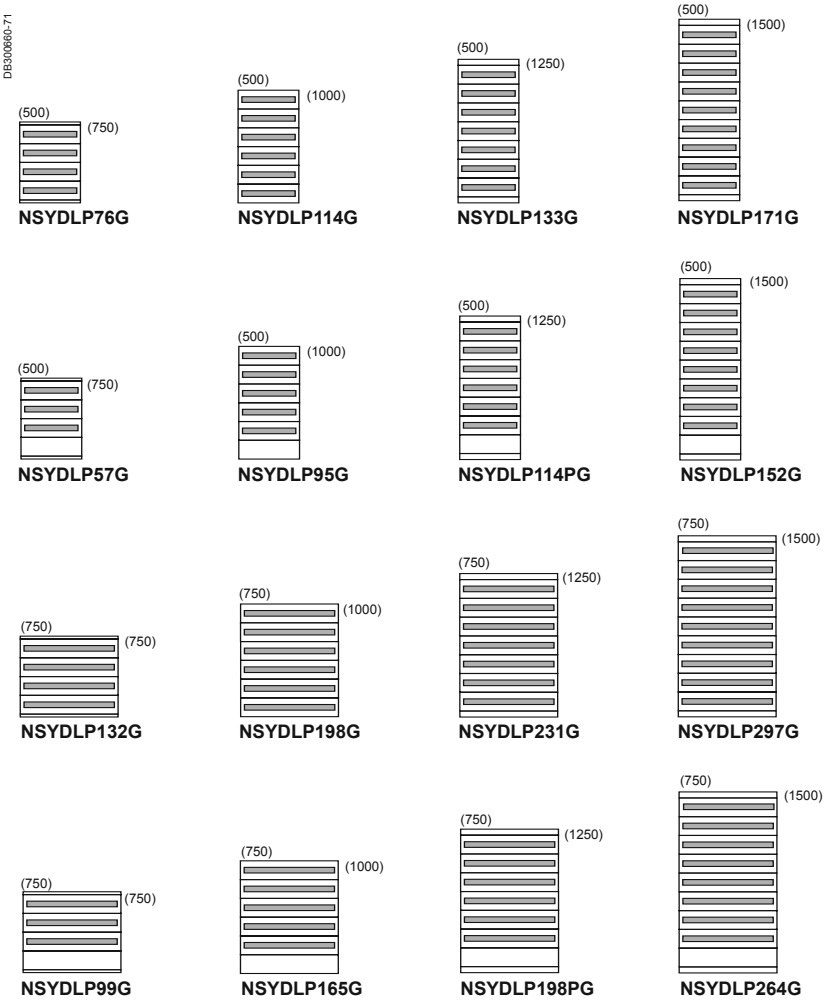
Detail from the circuit-marking system.

Installation accessories

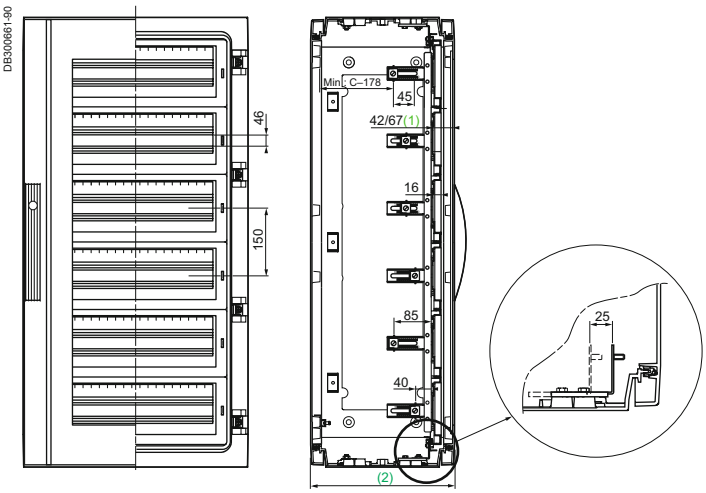
Dimensions

Modular distribution chassis

DB300660-71



DB300661-90



(1) Dimensions of 42 or 67 mm or a pitch of 25 mm, according to the M8 boss chosen for the installation. See details in the enlarged image on the right. In the enclosures with glazed doors, the 2 dimensions are reduced by 5 mm.
(2) C = Depth of the enclosure.

Thalassa PLA

Color change

Polyester floor-standing enclosures
Specific accessories

Installation accessories





NSYPTZ●●●

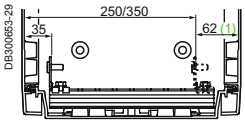


NSYPTZ●●●2P

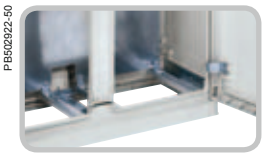
Characteristics		Step slides	Adapter plates
		■ Set of 4 step slides with brackets allowing continuous depth adjustment of the mounting plate, with a pitch of 25 mm. ■ Designed for direct installation in the enclosures with sealed bottom part (versions PLA or PLAT). ■ In the enclosures with open bottom part (versions PLAZ or PLAZT), installation is made possible by adding the relevant adapter plates. ■ Incompatibility with: internal door, modular distribution chassis, 19" chassis, cableentry plate and door retainer, ref. **NSYRETPLAU**.	■ The enclosures with open bottom part (versions PLAZ and PLAZT) require a set of adapter plates for mounting: □ an internal door, □ step slides, □ modular chassis and 19" chassis.
Material		Bracket with steel M8 stud on aluminium rail	Galvanised steel
Fixing		Fixing on the top and bottom parts of the enclosure by means of M8 inserts and screws (supplied)	Fixing on the bottom part of the enclosure by means of M8 inserts and screws (supplied)
For enclosure (mm)		**References**	
Depth	**No. of doors**		
320	1	**NSYDPLA3**	**NSYPTZ3**
	2	2 x **NSYDPLA3**	**NSYPTZ32P**
420	1	**NSYDPLA4**	**NSYPTZ4**
	2	2 x **NSYDPLA4**	**NSYPTZ42P**
620	1	**NSYDPLA6**	**NSYPTZ6**
	2	2 x **NSYDPLA6**	**NSYPTZ62P**

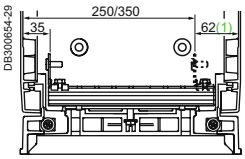
Installation of step slide ref. NSYDPLA●●●





Installation of step slide ref. NSYDPLA●●●, with adapter plate ref. NSYPTZ●●●







Additional support

Set of 4 additional brackets, to be slid into the step slides, for the installation of an additional mounting plate.

Reference
NSYEDPLA

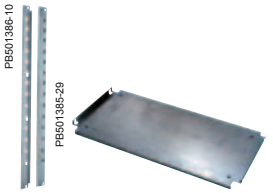
(1) 57 mm with one transparent door.

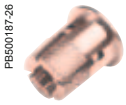
Life Is On Schneider Electric

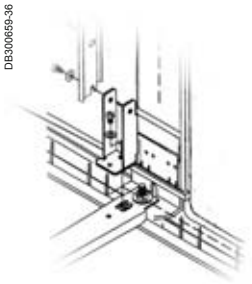
Color change

Polyester floor-standing enclosures
Specific accessories

Installation accessories



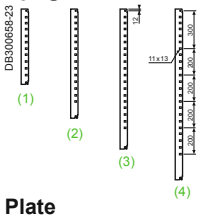




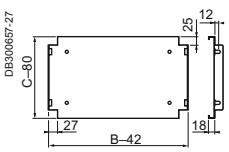
Characteristics		Support plate		M8 inserts	Intermediate support in the 2-door enclosures
		■ Designed to support assorted equipment or simply to install a separation. ■ In the 2-door enclosures, the installation of the plate or the uprights requires the prior installation of an intermediate support, ref. **NSYSBPLA**, presented beside.		To be placed in the bosses moulded on the doors, uprights, rear panels and bottom and top parts, for fixing accessories and assorted devices.	Required accessory for installing support plates, ref. **NSYBANPLA●●●** or uprights, ref. **NSYSPLA●●●** in the 2-door enclosures.
Material		Galvanised-steel		-	-
Installation		■ It is installed directly on the bottom part of the enclosure ■ For the installation of one or several support plates, use 2 sets of 2 uprights suitable for the height (to be ordered separately). These uprights offer the option of adjusting the height with a step of 50 mm		-	-
Supply		Delivered with the fixings required for installation		References by unit. Order by multiples of 8 units (8, 16, 24, etc.)	-
For enclosure (mm)		**Upright**			
Height	**Depth**	**No. of adjustments**	**References**	**Reference**	**Reference**
750	320	2	2 x **NSYSPLA75**	**NSYTEX8**	**NSYSBPLA**
	420				
1000	320	3	2 x **NSYSPLA100**		
	420				
1250	320	4	2 x **NSYSPLA125**		
	420				
1500	-	5	2 x **NSYSPLA150**		
For enclosure (mm)		**Plate**			
Depth (C)	**Width (B)**	**Max. load**	**References**		
320	500	60 kg	**NSYBANPLA53**		
	750	60 kg	**NSYBANPLA73**		
420	500	50 kg	**NSYBANPLA54**		
	750	50 kg	**NSYBANPLA74**		
620	500	50 kg	**NSYBANPLA56**		
	750	50 kg	**NSYBANPLA76**		



Upright



Plate



(1) NSYSPLA75 ; (2) NSYSPLA100 ; (3) NSYSPLA125 ; (4) NSYSPLA150.

Thalassa PLA

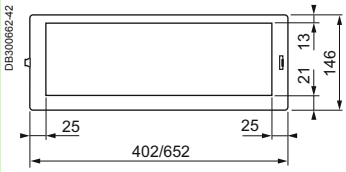
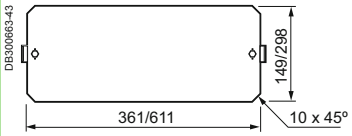
Color change

Polyester floor-standing enclosures
Specific accessories

Modular distribution accessories





Characteristics			Plain cover plate	Plain mounting plate
			Plain cover plate for non-modular switchgear protection.	■ Plate for fixing non-modular devices. ■ Depth-adjustable fixing on the supports from 40 to 85 mm. ■ Nominal height: 150 mm or 300 mm.
Material			Self-extinguishing insulating	Galvanised steel
Colour			RAL 7035 grey*	-
Thickness			-	20/10[e] mm
Supply			Order by multiples of 2 (2, 4, 6...)	Order by multiples of 2 (2, 4, 6...)
For enclosure (mm)	**Dimensions (mm)**		**References**	
Width	**Height**	**Width**		
500	146	402	**NSYCTL500DLPG**	-
	149	361	-	**NSYPMP500DLP**
	298	361	-	**NSYPMP5002DLP**
750	146	652	**NSYCTL750DLPG**	-
	149	611	-	**NSYPMP750DLP**
	298	611	-	**NSYPMP7502DLP**
				

** RAL 7035 from 2016.*

Color change

Polyester floor-standing enclosures
Specific accessories

19” chassis

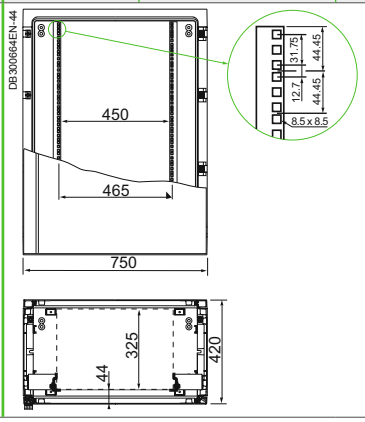


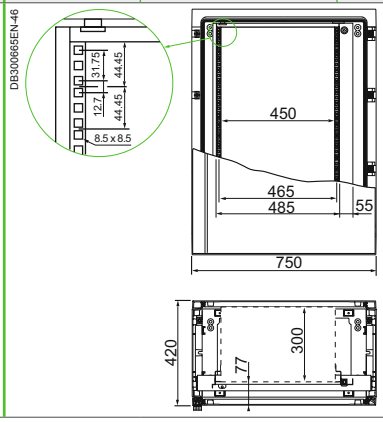
Enclosure with 19” fixed chassis.



Enclosure with 19” swing chassis.

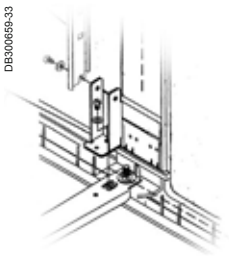
Characteristics		19” fixed chassis			19” swing chassis		
		■ Very sturdy 19” metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm. In the 1250 mm enclosure, the chassis is installed in the 750 mm part with an intermediate support, ref. **NSYSBPLA**. ■ These chassis can be used as partial mounting plates in enclosures with higherthan-nominal height. ■ Incompatible with the internal doors and the step slides.					
		■ Fixed chassis made up of 2 uprights with fixings.			■ Swing chassis opening to 120° with 5 mm double-bar key lock.		
Material		Sheet steel			Sheet steel		
Finish		Epoxy-polyester paint			Epoxy-polyester paint		
Colour		RAL 7035 grey*			RAL 7035 grey*		
Installation		For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure			For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure		
Maximum load		3 kg per U			3 kg per U		
For enclosure (mm)		**Number of U**	**References**		**Number of U**	**References**	
Height	**Width**		**19” fixed chassis**	**Batch of 2 uprights**		**19” swing chassis**	**Batch of 2 uprights**
500	750	8	**NSYBRF8PLAG**	-	7	**NSYBRP7PLAG**	-
750	750	12	**NSYBRF12PLAG**	**NSYSPLA75**	11	**NSYBRP11PLAG**	**NSYSPLA75**
1000	750	17	**NSYBRF17PLAG**	**NSYSPLA100**	16	**NSYBRP16PLAG**	**NSYSPLA100**
1250	750	21	**NSYBRF21PLAG**	**NSYSPLA125**	20	**NSYBRP20PLAG**	**NSYSPLA125**
1500	750	26	**NSYBRF26PLAG**	**NSYSPLA150**	25	**NSYBRP25PLAG**	**NSYSPLA150**
2000	750	35	**NSYBRF35PLAG**	2 x **NSYSPLA100**	2 x 16	2 x **NSYBRP16PLAG**	2 x **NSYSPLA100**





** RAL 7035 from 2016.*

Recommendation



Intermediate support
Accessory required for installing uprights, ref. **NSYSPLA•••**.

Reference
NSYSBPLA

Thalassa PLD

Color change

Polyester DIN floor-standing enclosure
Introduction

> Floor-standing enclosures designed mainly to accommodate busbars and DIN-type three-pole LV fuse, for LV public distribution network.
The properties of the material and the manufacturing process are identical to those of the Thalassa PLA range.

PB502841-33



Smart
Enclosure ref. **NSYPLD8122G** with the central upright fixed to the left door.

PB502842-25



Enclosure ref. **NSYPLD8122CG** with central upright, 2 doors and 2 locks.

PB502843-169



PB502844-31



LV public distribution application with DIN three-pole fuse blocks: floor-standing enclosure and plinth

PB502845-23



1

PB502846-23



2

PB502847-23



3

PB502848-25



4

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 480 for details or consult our web site www.schneider-electric.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development.
Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges.
The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Color change

Polyester DIN floor-standing enclosure
Characteristics



Characteristics	Thalassa PLD
	■ Floor-standing enclosure with built-in canopy, not overhanging, allowing the coupling of enclosures side-to-side or back-to-back. ■ Easily removable inner hinges, allowing the door to be reversed and to open to more than 180°. ■ Doors equipped with impressions allowing the integration of inserts for M6 screws. ■ Closing by handle with lever and 1242 E cylindrical safety lock. Other locks optionally available (see page 208). ■ 2-door floor-standing enclosure with central upright: □ fixed to the enclosure and removable: one lock on each door, □ fixed to the left door: a single lock on the right door. ■ M8 boss for installation on the lateral surfaces, inserts ref. **NSYTEX8** not supplied. ■ M6 bosses in the roof for fixing the lighting or auxiliary equipment, inserts ref. **NSYTEX6** not supplied.
Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey*
Ingress protection rating	IP43 according to IEC 60529 (IP54 with sealing kit, see page 208)
Mechanical protection rating	IK10
Installation	■ Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure ■ Direct fixing to the floor or on a plinth, with a height of 900 mm, partially embedded ■ Fixing points at the rear of the enclosure with: □ M10 inserts: for installing, direct or on insulators, distribution bars for DIN-type three-pole fuse-holder strips and for a neutral bar □ M6 inserts: for installing a mounting plate

Height (mm)	Width (B) (mm)	Depth (mm)	Size DIN	No. of doors	No. of locks	References
850	465	320	00	1	1	**NSYPLD8500G**
850	590	320	0	1	1	**NSYPLD860G**
850	785	320	1	1	1	**NSYPLD881G**
850	1115	320	2	2	1	**NSYPLD8122G**
850	1115	320	2	2	2	**NSYPLD8122CG**

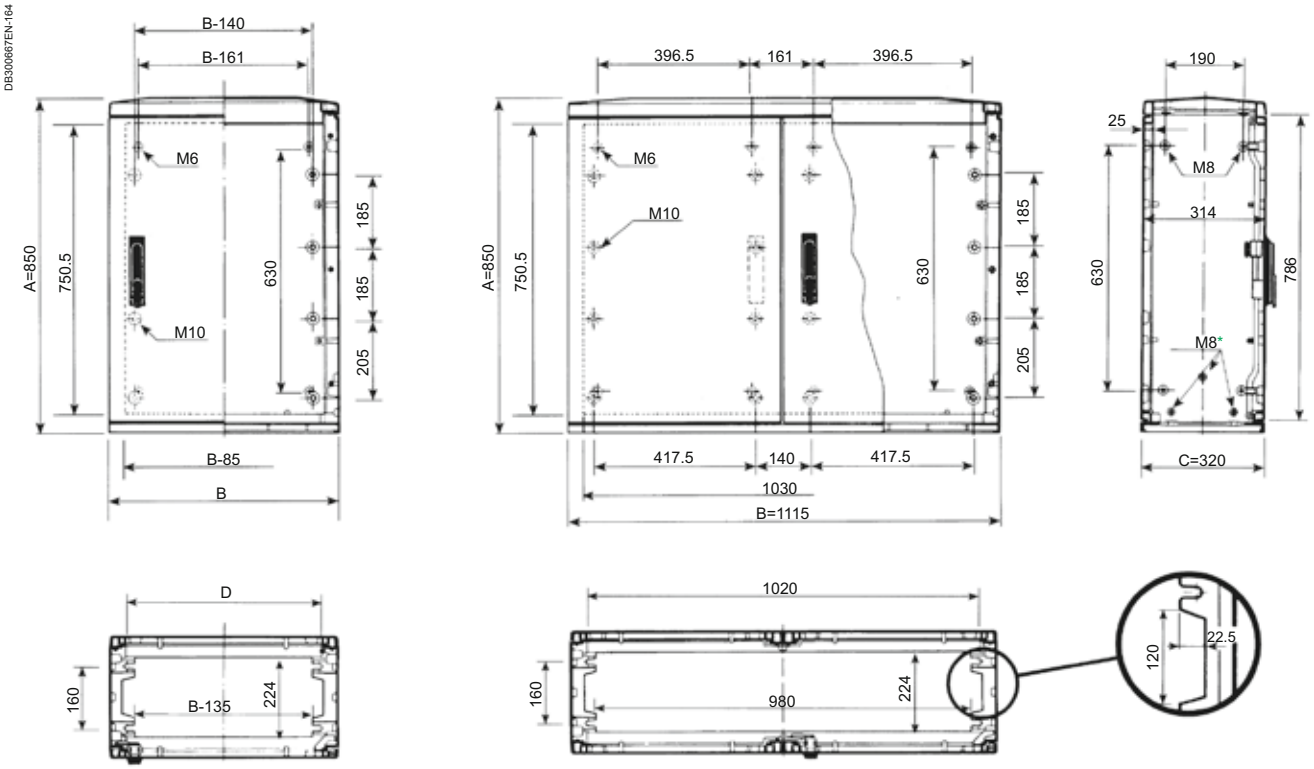
** RAL 7035 from 2016.*

Thalassa PLD

Color change

Polyester DIN floor-standing enclosure
Dimensions

Floor-standing enclosures

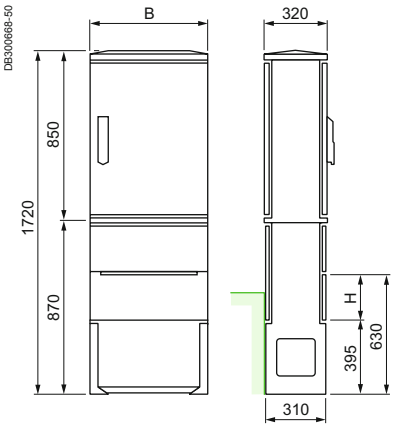


* *Housing for M8 inserts, ref.* ***NSYTEPLDM8*** *(to be ordered in multiples of 25).*

B	D**	References	
(mm)	(mm)	Floor-standing enclosures	Plinths
465	360	**NSYPLD8500G**	**NSYZD5300G**
590	495	**NSYPLD860G**	**NSYZD630G**
785	690	**NSYPLD881G**	**NSYZD831G**
1115	1020	**NSYPLD8122G**	**NSYZD1232G**

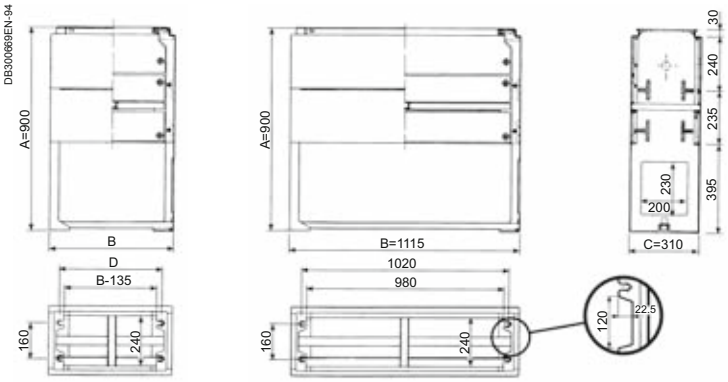
*** Distance between the points for fixing the enclosure to the plinth.*

Floor-standing enclosure plus plinth



The H dimension relates to the finished floor height area.

Plinths



Color change

Polyester DIN floor-standing enclosure
Specific accessories

Base accessories

PB502849-40



PB502850-48



Characteristics	Plinth height 900 mm	Floor-standing supports
	■ Easy machining. ■ Embeddable plinth ready for direct fixing of DIN floor-standing enclosures. ■ Retractable top front panel, providing easy access to the inside of the enclosure. ■ On the rear panel, housings with M6 inserts, allowing the fixing of the plate, DIN rail or assorted hardware. ■ Lateral uprights with knock-out auxiliary outlet with a diameter of Pg 36 (48 mm). ■ Internal U- and L-shaped metal uprights, adjustable, for fixing cables. ■ A knock-out zone is provided at the bottom of the lateral uprights for cable entry.	Set of 2 metal supports for fixing the enclosure directly to the floor.
Material	Polyester reinforced with fibreglass	-
Colour	RAL 7035 grey*	-

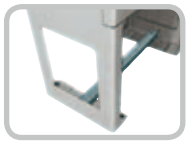
For floor-standing enclosure			Table of fixing and opening dimensions			
Width (mm)	References		K	L	M	Reference
465	**NSYPLD8500G**	**NSYZD5300G**	360	320	224	**NSYSPLD**
590	**NSYPLD860G**	**NSYZD630G**	495	455	224	
785	**NSYPLD881G**	**NSYZD831G**	690	650	224	
1115	**NSYPLD8122G** and **NSYPLD8122CG**	**NSYZD1232G**	1020	980	224	

PB502851-24



Knock-out Pg 36 auxiliary outlet.

PB502852-42



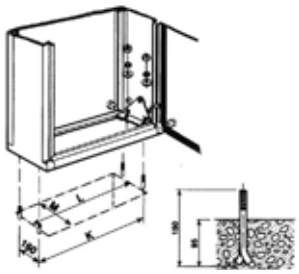
Lateral knock-out is removed.

PB502853-32



Removable top front panel (not hinged).

DB300670-42



** RAL 7035 from 2016.*

Polyester DIN floor-standing enclosure
Specific accessories

Locking system



Characteristics	Locks
	Standard lock with retractable plastic handle and 1242 E semi-cylindrical safety lock.
Options	Other optional shape inserts or barrels and keys

Options

Inserts for optional change

Name	References
5-mm double bar	**NSYTDB5ME**
6-mm male square	**NSYTC6ME**
7-mm male square	**NSYTC7ME**
8-mm male square	**NSYTC8ME**
6.5-mm male triangle	**NSYTT6ME**
8-mm male triangle	**NSYTT8ME**
Barrel and key 405	**NSYTCL405ME**
Reinforced semi-cylindrical barrel and key	**NSYTLRME**
JIS key and barrel	**NSYTLJISME**



Padlocking accessory

Description: padlocking system, for Ø 9 mm padlock, preventing access to the handle.

Reference
NSYBCME

Other accessories



Characteristics	IP54 sealing kit
	■ Placed directly on the door and on the rear of the enclosure. ■ Seal made from black synthetic rubber.
Ingress protection rating	IP54
For floor-standing enclosure	**References**
Width (mm)	
465	**NSYJED8500**
590	**NSYJED860**
785	**NSYJED881**
1115	**NSYJED8122**

Color change

Polyester DIN floor-standing enclosure
Specific accessories

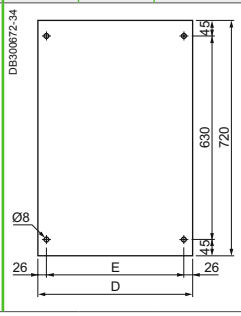
Mounting accessories

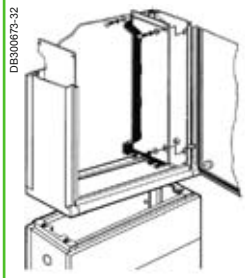






Characteristics	Insulating mounting plate				Lateral uprights for busbars
	It is placed directly on the rear of the enclosure.				■ They are fixed to the plinth, ref. **NSYZD●●●**. ■ They are designed to accommodate busbars, fixed to the built-in inserts. ■ This installation is used with a polyester DIN floor-standing enclosure previously machined to obtain a completely open bottom part. This machining is available in the customised offer. ■ The enclosure is positioned from the top on the set made of both lateral uprights plus the plinth. ■ The fixings supplied allow the attachement of the 2 uprights to the enclosure.
Material	Insulating material, bakelite				Polyester
Colour	RAL 9005 black				RAL 7035 grey**
Thickness	50/10e mm				-
For floor-standing enclosure	**D (mm)**	**E (mm)**	**Weight (kg)**	**References**	**Reference**
Width (mm)					
465	356	304	2	**NSYAPLD85**	**NSYBPLDNG**
590	481	429	2.7	**NSYAPLD86**	
785	676	624	3.8	**NSYAPLD88**	
1115	448.5	396.5	5	**NSYAPLD812***	





** The reference includes 2 mounting plates with the dimensions of the table.*
*** RAL 7035 from 2016.*

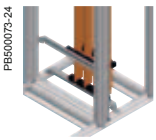
Accessories

Accessories
Contents



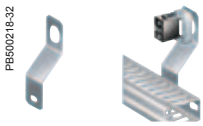


Mounting 212

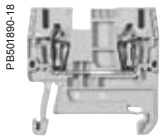


Power distribution 246





Cable management 266



Terminal blocks 288



Lighting and power socket 290



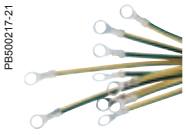
Floor accessories 294





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Mounting
Mounting plates for wall-mounting enclosures

S3D S3X PLM









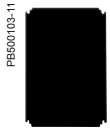
Characteristics	Mounting plates		
	Plain	Silkscreened	Microperforated**
	-	Silkscreened for easier distribution of the products to be installed. Centimetric grid pattern.	They considerably reduce the products installation time thanks to the holes prepared to receive the self-tapping screws. Holes with Ø 3.6 mm in steps of 12.5 mm.
Material	Galvanised-steel	Galvanised-steel	Galvanised-steel
Colour	-	-	-
Maximum load	PLM: 150 kg/m² S3D, S3X, CRN, CRNG: 250 kg/m²		
Supply	1 mounting plate without fixing elements		

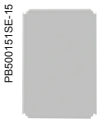
Characteristics	Telequick mounting plate**
	They allow cable guides and ducting and other installation accessories to be clipped on, making it easier to install switchgear. 11 x 26 mm slots. Switchgear fixing by clip-on nuts.
Material	Zinc-coated-steel
Colour	-
Maximum load	PLM: 150 kg/m² S3D, S3X, CRN: 250 kg/m²
Supply	1 mounting plate without fixing elements

For enclosures (mm)		Dimensions (mm)		References	References	References	Dimensions (mm)		No. of perforations in		References
Height	Width	H	W				H	W	H	W	
200	200	150	150	**NSYMM22**	-	-	-	-	-	-	-
	300	150	250	**NSYMM23**	-	-	-	-	-	-	-
250	200	200	150	**NSYMM2520**	-	-	-	-	-	-	-
	300	250	200	**NSYMM3025**			-	-			
	400	200	350	**NSYMM2540**	-	-	-	-	-	-	-
	500	200	450	**NSYMM2550**	-	-	-	-	-	-	-
300	200	250	150	**NSYMM32**	-	**NSYMF32**	255	153.7	16	5	**NSYMR32**
	250	250	200	**NSYMM3025***	-	-	253	228	16	8	**NSYMR3025**
	300	250	250	**NSYMM33**	-	**NSYMF33**	255	251	16	9	**NSYMR33**
	400	250	350	**NSYMM43***	**NSYMS43***	**NSYMF43***	255	351	18	11	**NSYMR34**
	450	250	400	**NSYMM3045**	-	-	-	-	-	-	-
	500	450	250	**NSYMM53***	-	-	-	-	-	-	-
	600	250	550	**NSYMM36**	-	-	-	-	-	-	-
400	300	230	350	**NSYMM43***	**NSYMS43**	**NSYMF43**	348.7	251	22	9	**NSYMR43**
	400	350	350	**NSYMM44**	**NSYMS44**	**NSYMF44**	345	351	24	11	**NSYMR44**
	600	350	550	**NSYMM64***	**NSYMS64***	-	345	551	24	19	**NSYMR46**
	800	350	750	**NSYMM48**	-	-	-	-	-	-	-
500	300	450	250	**NSYMM53***	**NSYMS53***	**NSYMF53**	453.7	251	29	9	**NSYMR53**
	400	450	350	**NSYMM54**	**NSYMS54**	**NSYMF54**	450	351	31	11	**NSYMR54**
	500	450	450	**NSYMM55***	**NSYMS55***	**NSYMF55**	450	451	31	14	**NSYMR55**
	600	550	450	**NSYMM65**	-	-	-	-	-	-	-
600	400	550	350	**NSYMM64**	**NSYMS64**	**NSYMF64***	555	351	38	11	**NSYMR64**
	500	550	450	**NSYMM65**	-	**NSYMF65**	555	451	38	14	**NSYMR65**
	600	550	550	**NSYMM66**	**NSYMS66**	**NSYMF66**	555	551	38	17	**NSYMR66**
	800	-	-	-	-	-	551	750	36	24	**NSYMR68**
	1000	-	-	-	-	-	-	-	-	-	-
	1200	-	-	-	-	-	-	-	-	-	-
700	500	650	450	**NSYMM75**	**NSYMS75**	**NSYMF75**	645	451	44	14	**NSYMR75**
	600	650	550	**NSYMM76**	-	-	645	551	44	17	**NSYMR76**
800	600	750	550	**NSYMM86***	**NSYMS86***	**NSYMF86***	750	551	51	17	**NSYMR86**
	800	750	750	**NSYMM88**	-	**NSYMF88**	750	751	51	24	**NSYMR88**
	1000	-	-	**NSYMM108**	-	**NSYMF108**	751	951	49	31	**NSYMR810**
	1200	-	-	**NSYMM128**	-	**NSYMF128**	-	-			2 x **NSYMR86**
1000	600	950	550	**NSYMM106**	-	**NSYMF106**	945	551	64	17	**NSYMR106**
	800	950	750	**NSYMM108***	-	**NSYMF108***	945	751	64	24	**NSYMR108**
	1000	950	950	**NSYMM1010**	-	**NSYMF1010**	945	951	62	31	**NSYMR1010**
	1200	-	-	-	-	-	951	1151	62	37	**NSYMR1012**
1200	600	1150	550	**NSYMM126**	-	**NSYMF126**	1145	551	75	17	**NSYMR126**
	800	1150	750	**NSYMM128***	-	**NSYMF128**	1145	751	75	24	**NSYMR128**
	1000	1150	950	**NSYMM1210***	-	**NSYMF1210***	1145	951	75	31	**NSYMR1210**
	1200	1150	1150	**NSYMM1212**	-	2 x **NSYMF126**	-	-	-	-	2 x **NSYMR126**
1400	1000	1350	950	**NSYMM1410**	-	-	1345	951	88	31	**NSYMR1410**

** Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions.*
*Example: Plate ref. **NSYMM64** can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm.*
*For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide **NSYSDRSDCR•••** (more information on page 216).*

Mounting
Mounting plates for wall-mounting enclosures







Characteristics	Bakelite mounting plate**	Polyester mounting plate**	DIN-rail chassis
	■ They are coupled directly to the rear of the actual enclosure or to the sliding plate supports. ■ Double-door enclosures offer the option of installing two plates.		Components supplied with a DIN-rail chassis: ■ Aluminium uprights. ■ DIN rails (symmetric section A or B, according to the reference). ■ Screws, washers and nuts need to mount the DIN rails to the uprights. ■ Batch of 4 adapters, ref. **NSYAMCSF**, needed to fix the uprights to the enclosure.
Material	Bakelite	Polyester reinforced with fibreglass	Aluminum or zinc-coated steel
Colour	RAL 9005 black	RAL 7035 grey	-
Maximum load	100 kg/m²	150 kg/m²	-
Supply	1 mounting plate without fixing elements	1 mounting plate and fixing elements	1 DIN-rail chassis

For enclosures (mm)		Dimensions (mm)		Thick. (mm)	References	Dimensions (mm)		Thick. (mm)	References	Type of rails	No. of rails	References
Height	Width	H (P)	W (S)			H (P)	W (S)					
300	200	265	150	4	**NSYMB32**	265	150	4	**NSYMPP32**	-	-	-
	250	265	200	4	**NSYMB3025**	265	200	4	**NSYMPP3025**	-	-	-
	300	265	250	4	**NSYMB33**	-	-	-	-	B	4	**NSYMD33**
400	300	325	250	4	**NSYMB43**	325	250	4	**NSYMPP43**	B	4	**NSYMD43**
500	400	465	350	4	**NSYMB54**	465	350	4	**NSYMPP54**	B	4	**NSYMD54**
600	400	565	350	4	**NSYMB64**	565	350	4	**NSYMPP64**	B	6	**NSYMD64**
	500	565	450	4	**NSYMB65**	-	-	-	-	-	-	-
	600	-	-	-	-	-	-	-	-	A	6	**NSYMD66**
700	500	665	450	4	**NSYMB75**	665	450	4	**NSYMPP75**	B	6	**NSYMD75**
800	600	765	550	4	**NSYMB86**	765	550	5	**NSYMPP86**	A	6	**NSYMD86**
	1000	-	-	-	**NSYMB108**	-	-	-	-	-	-	-
	1200	-	-	-	2 x **NSYMB86**	-	-	-	-	-	-	2 x **NSYMD86**
1000	600	965	550	4	**NSYMB106**	-	-	-	-	-	-	-
	800	965	750	4	**NSYMB108**	965	750	5	**NSYMPP108**	A	6	**NSYMD108**
1200	800	-	-	-	-	-	-	-	-	A	7	**NSYMD128**
	1000	1150	950	4	**NSYMB1210**	-	-	-	-	-	-	-

*** To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**. See details on page 216.*
*To install the plate in an enclosure with 6 studs, also order reference **NSYEMR**.*



Characteristics	Joinable Telequick mounting plate
	20/10[e] mm Telequick mounting plates. These mounting plates are suitable for mounting vertically multiple plates. 11 x 26 mm slots. Switchgear fixing by clip-on nuts.
Material	Zinc-coated steel
Supply	1 mounting plate and fixing elements

For enclosures (mm)		Dimensions (mm)		References
Height	Width	H	W	
60	700	120	734	**AM1PA0670**
120	700	180	734	**AM1PA1270**
300	150	349	228	**AM1PA3015**
	195	349	258	**AM1PA3020**
	500	360	534	**AM1PA3050**
	700	360	734	**AM1PA3070**
405	300	465	334	**AM1PA4030**
600	400	660	434	**AM1PA6040**
	500	660	534	**AM1PA6050**
	600	660	634	**AM1PA6060**
	700	660	734	**AM1PA6070**
705	500	765	534	**AM1PA7050**
795	600	855	634	**AM1PA8060**
900	500	960	534	**AM1PA9050**
	600	960	634	**AM1PA9060**
	700	960	734	**AM1PA9070**

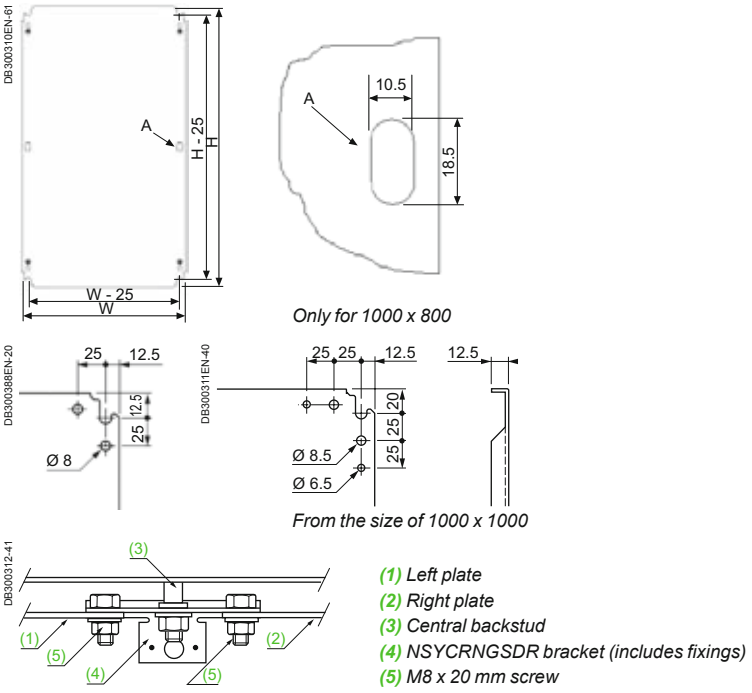
Mounting

Mounting plates for wall-mounting enclosures

S3D S3X PLM

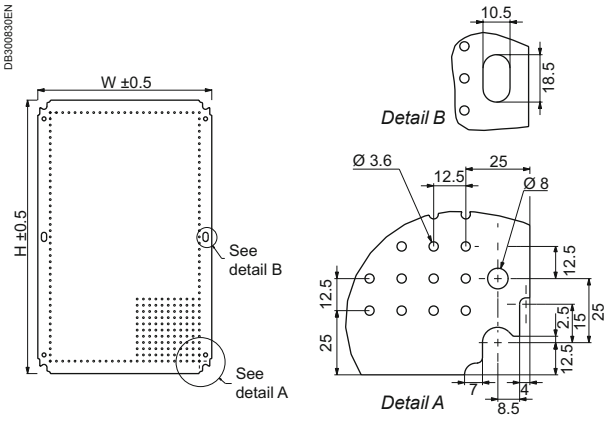
Dimensions

Plain and silkscreened mounting plates

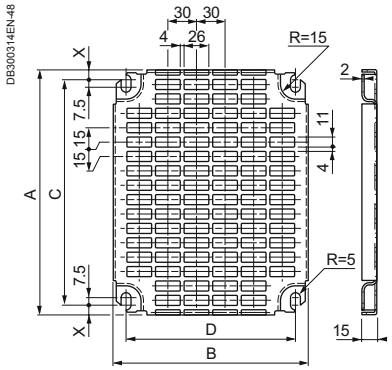


(1) Left plate
(2) Right plate
(3) Central backstud
(4) NSYCRNGSDR bracket (includes fixings)
(5) M8 x 20 mm screw

Microperforated mounting plate



Telequick mounting plate



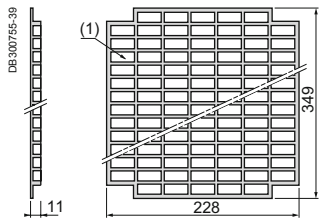
Mounting
Mounting plates for wall-mounting enclosures

S3D S3X PLM

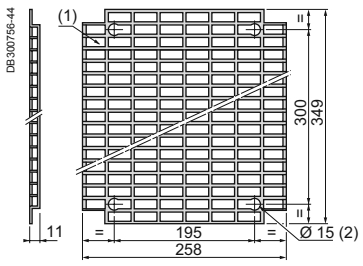
Dimensions

Joinable Telequick mounting plate

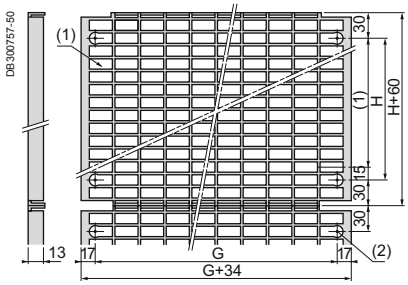
AM1-PA3015



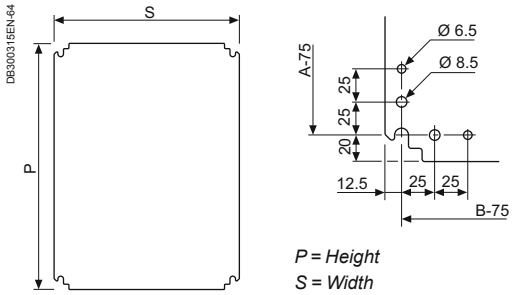
AM1-PA3020



All others

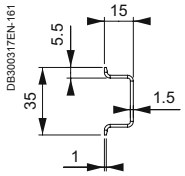


Bakelite and polyester mounting plate

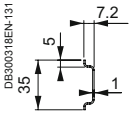


P = Height
S = Width

DIN-rail chassis



Type A



Type B

Mounting plate accessories





Characteristics	Elevator for microperforated mounting plate	Clip-on nuts for Telequick mounting plate	
	Mounting plate elevator to mount the Microperforated mounting plate at the same level as the other Telequick system components.	Used to easily fix devises in the Telequick mounting plate with the possibility of changing the lay-out as much as needed.	
Supply	4 units	100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)	
	Reference	**Model**	**References**
	AZ1CA04	M3	**AF1EA3**
		M4	**AF1EA4**
		M5	**AF1EA5**
		M6	**AF1EA6**

Mounting
Step slides for wall-mounting enclosures

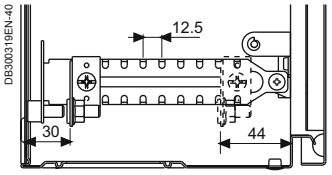
S3D S3X



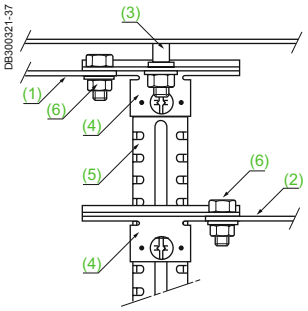




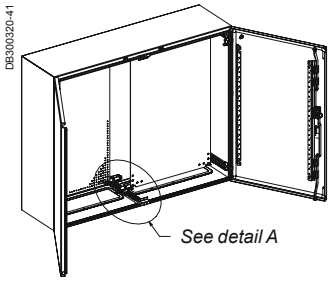
Characteristics	Step slides for mounting plate	Step slides for 2 mounting plates in one enclosure	Slide bracket for 2 mounting plates at different depths
	Set of 4 supports intended for installation in enclosures with depths of 200, 250, 300 and 400 mm. The rail allows the depth of the plate and other accessories to be adjusted in steps of 12.5 mm.	In 1000 and 1200 mm wall-mounting enclosures, it is possible to install 2 mounting plates side by side, using the additional central step slides.	Additional slide bracket to be installed on the central step slides in order to mount 2 mounting plates, side by side, in different depths.
Supply	4 step slides	2 step slides	2 slide brackets
For enclosure	**References**		
Depth (mm)			
200	**NSYSDCR200**	-	**NSYCRNGSDR**
250	**NSYSDCR250**	-	
300	**NSYSDCR300**	**NSYSDRSDCR300***	
400	**NSYSDCR400**	**NSYSDRSDCR400***	

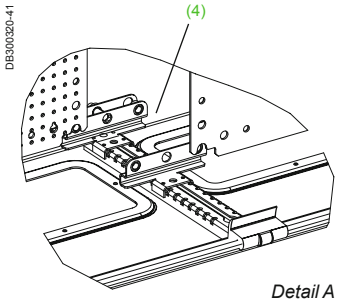






(1) Left plate
(2) Right plate
(3) Central backstud
(4) NSYCRNGSDR bracket (includes fixings)
(5) NSYSDRSDCR slide bracket
(6) M8 x 20 mm screw





Detail A

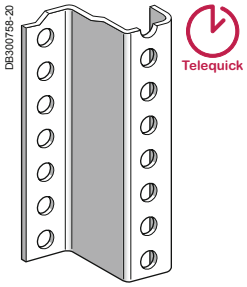
** Not applicable for stainless steel enclosures.*

Mounting
Vertical rails for wall-mounting enclosures

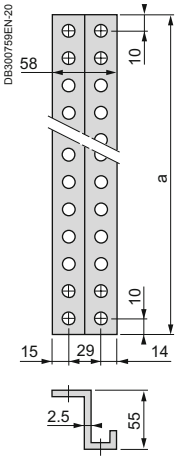
S3D S3X PLM PLA



S3D S3X PLM



Characteristics	Aluminium vertical rails			20/10[e] mm zinc-coated pre-drilled uprights	
	Fixing in the enclosure with M8 nuts, ref. **NSYAMCSF** (batch of 4 adapters to be ordered separately).			Ø 11 mm holes enable to adjust the rows of equipment by 20 mm steps.	
Supply	-			4 units	
Height (a) (mm)	**Material**	**Supply (units)**	**References**	**Weight (g)**	**References**
300	Aluminium	10	**NSYMDVR3**	-	-
400	Aluminium	10	**NSYMDVR4**	-	-
500	Aluminium	10	**NSYMDVR5**	-	-
600	Aluminium	10	**NSYMDVR6**	-	-
700	Aluminium	10	**NSYMDVR7**	-	-
800	Aluminium	10	**NSYMDVR8**	-	-
1000	Aluminium	10	**NSYMDVR10**	-	-
1020	-	-	-	2330	**DZ6MZ121**
1200	Steel	2	**NSYMDVR12**	-	-
1320	-	-	-	2920	**DZ6MZ151**
1620	-	-	-	3375	**DZ6MZ181**
1920	-	-	-	4000	**DZ6MZ211**
3000 (3 m)	Aluminium	10	**NSYMDVR3M**	-	-



Sliding Nuts



Sliding nuts to be used on aluminium vertical rails.

Type	Supply (units)	References
M4	100	**NSYNM4**
M5	100	**NSYNM5**
M6	100	**NSYNM6**

Brass nuts to fix the upright to the enclosures

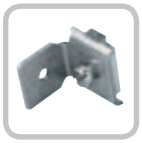


Supply: 4.

Reference
NSYAMCSF

Slides and brackets

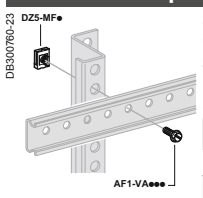




They allow the depth of the plates and rails to be adjusted.
Supply: 10 units. References per unit.
To be ordered in multiples of 10 (10, 20, 30, etc.).

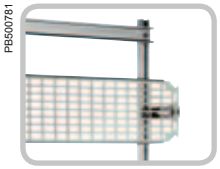
Type	References
90-mm slide with bracket for enclosures with depths of 150 and 200 mm	**NSYSB90**
130-mm slide with bracket for enclosures with depths of 250 and 300 mm	**NSYSB130**
Bracket for slides (customised mounting plate)	**NSYFB**

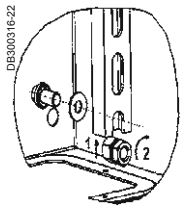
Notched clamp nuts



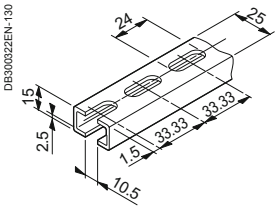
Specially designed for pre-drilled uprights.
Supply: 100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...).

Type	Weight (g)	References
M6	7.0	**DZ5MF6**
M8	8.0	**DZ5MF8**

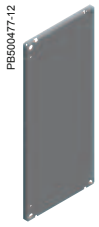




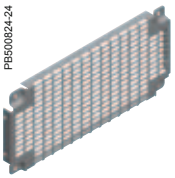
Ref. ***NSYAMCSF***



Mounting
Mounting plates for floor-standing enclosures



SM SF SMX SFX



Telequick

SM SF SD SMX SFX SDX



Telequick

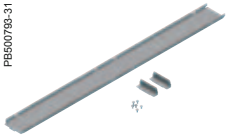
SM SF SFX

Characteristics	Plain mounting plate	Perforated mounting plate Telequick	Partial mounting plate
	■ Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding. ■ Once the plate is fixed, in advanced position, the sliding shoe can be easily removed, to increase the available plate surface. ■ In sets made up of two or more enclosures with mounting plates, it is possible to obtain a continuous plate surface using intermediate mounting plates (see page 219).	■ Allows the installation of switchgear without drilling or screwing. ■ Plate designed for quick fixing of switchgear by means of clip-on nuts ref. **AF1EA3** to **AF1EA6**. ■ Vertical continuity is guaranteed by the vertical installation of plates. ■ The top plate must be fixed in the third hole, 80 mm from the top frame.	Partial mounting plate, provided with reinforcement flange on its four sides.
Material	Galvanised steel	Zinc-coated steel	Galvanised steel
Fixing	Fixing options: ■ At the sides of the enclosure with the orthogonal brackets (see page 222) ■ Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page 223)	Fixing options: ■ Directly to the vertical uprights of the structure, by means of self-tapping screws (only Spacial SF) ■ To the technical vertical uprights, by means of sliding nuts, page 226; to standard uprights by means of flat nuts, page 226 or self-tapping screws, and to cross rails	Fixing options: ■ **Spacial SF, SFX:** □ Fixing to the vertical uprights of the structure □ Fixing to the technical or standard vertical uprights, see page 226 □ For installations in advanced position, fixing to cross-rails, see page 230 ■ **Spacial SM:** □ Fixing by means of adaptation profiles and 40-mm universal cross-rails (1 row) in vertical position, or also on horizontal universal cross-rails □ It can be mounted horizontally, as a tray, by means of depthwise cross rails, see page 230
Maximum load	600 kg in the back of the enclosure and 500 kg in the intermediate position	-	-
Supply	One mounting plate and sliding shoes	One perforated mounting plate and fixing elements for technical uprights and screws for fixing to the structure or cross rails	Partial mounting plate and fixing elements

Dimensions (mm)	Dimensions (mm)	References	Plate height (mm)				Useful surface (dm^2)	References	Plate height (mm)	Plate length (mm)	References
Width (B)	**Height (A)**		**D**	**E**	**F**	**G**			**H**	**B-100**	
600	1200	**NSYMP126**	450	200	-	100	11.4	**NSYSTMP2260**	247	500	**NSYSPMP2560**
	1400	**NSYMP146**	450	425	-	325	22.8	**NSYSTMP4560**	247	750	**NSYSPMP2575**
	1600	**NSYMP166**	450	575	125	475	30.4	**NSYSTMP6060**	397	500	**NSYSPMP4060**
	1800	**NSYMP186**	450	800	250	700	11.9	**NSYSTMP8260**	597	500	**NSYSPMP6060**
	2000	**NSYMP206**									
	2200	**NSYMP226**									
800	1200	**NSYMP128**	650	200	-	100	15.9	**NSYSTMP2280**	247	700	**NSYSPMP2580**
	1400	**NSYMP148**	650	425	-	325	31.8	**NSYSTMP4580**	397	700	**NSYSPMP4080**
	1600	**NSYMP168**	650	575	125	475	42.4	**NSYSTMP6080**	597	700	**NSYSPMP6080**
	1800	**NSYMP188**	650	800	250	700	58.4	**NSYSTMP8280**			
	2000	**NSYMP208**									
	2200	**NSYMP228**									
1000	1200	**NSYMP1210**	850	200	-	100	20.4	**NSYSTMP22100**	247	900	**NSYSPMP25100**
	1400	**NSYMP1410**	850	425	-	325	40.8	**NSYSTMP45100**	397	900	**NSYSPMP40100**
	1600	**NSYMP1610**	850	575	125	475	54.4	**NSYSTMP60100**	597	900	**NSYSPMP60100**
	1800	**NSYMP1810**	850	800	250	700	74.9	**NSYSTMP82100**			
	2000	**NSYMP2010**									
	2200	**NSYMP2210**									
1200	1200	**NSYMP1212**	1050	200	-	100	24.9	**NSYSTMP22120**	247	1100	**NSYSPMP25120**
	1400	**NSYMP1412**	1050	425	-	325	49.9	**NSYSTMP45120**	397	1100	**NSYSPMP40120**
	1600	**NSYMP1612**	1050	575	125	475	66.5	**NSYSTMP60120**	597	1100	**NSYSPMP60120**
	1800	**NSYMP1812**	1050	800	250	700	91.5	**NSYSTMP82120**			
	2000	**NSYMP2012**									
	2200	**NSYMP2212**									
1600	1800	**NSYMP1816**	Order two 800-mm plates						397	1100	**NSYSPMP40160**
	2000	**NSYMP2016**									

Mounting
Mounting plates for floor-standing enclosures

SF SFX

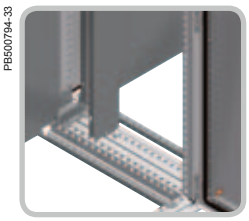


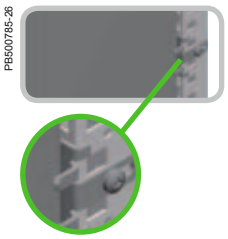


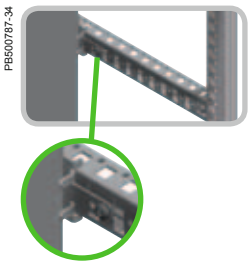




Characteristics		Intermediate mounting plate	Intermediate fixing of the mounting plate, located in the back of the enclosure	Intermediate fixing of the mounting plate, in advanced position	Reinforcement for mounting plate
		■ Obtains a continuous surface of the mounting plate at enclosure suites. ■ Adjustable depth with a pitch of 25 mm. When the mounting plates are located in the back of the enclosure, the vertical profiles of the structure are flush with the plates, acting as an intermediate mounting plate. In this case the intermediate plate cannot be installed.	■ Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in the back of the enclosure. ■ The supports minimise the vibration of the plate during the transport and operation of the panel.	■ Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in advanced position. ■ The supports minimise the vibration of the plate during the transport and operation of the panel.	■ Reinforcement kit for transversal mounting plate. ■ Provides extra rigidity to the mounting plates and absorbs vibrations. ■ Can be used as a support for fixing very heavy elements.
Material		Galvanised steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
Thickness		-	-	-	15/10[e] mm
Fixing		-	■ The supports are fixed to the structure when the plate is already located in the back of the enclosure ■ **Spacial SM:** fixing to 40-mm universal cross rails (1 row), installed vertically in the back of the enclosure, see page 230	The supports are mounted on light cross rails or on 40-mm (1 row) universal or quick-fixing cross rails (not supplied), see page 230	-
Supply		One intermediate plate and fixing elements	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30…)	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30…)	Two profiles, four supports for fixing to the mounting plate and fixing elements
Dimensions (mm)		**References**			
Height (A)	**Width (B)**				
1200	-	**NSYSIMP12**	**NSYSMPFB**	**NSYSMPFA**	-
1400	-	**NSYSIMP14**			-
1600	-	**NSYSIMP16**			-
1800	-	**NSYSIMP18**			-
2000	-	**NSYSIMP20**			-
2200	-	**NSYSIMP22**			-
-	800	-			**NSYMPRK8**
-	1000	-			**NSYMPRK10**
-	1200	-			**NSYMPRK12**
-	1600	-			**NSYMPRK16**



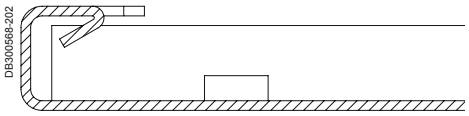




Mounting

Mounting plates for floor-standing enclosures

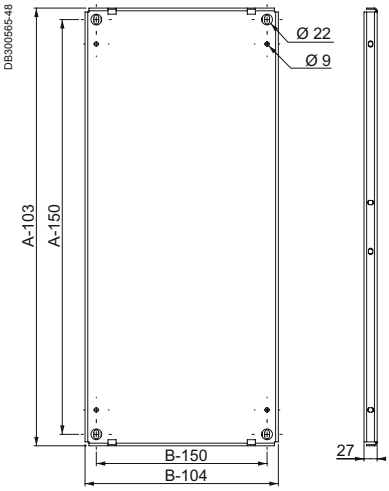
Advantages



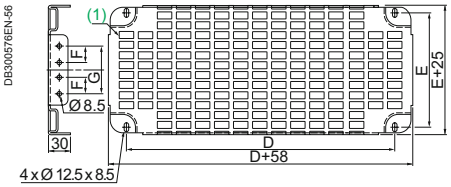
■ The triple fold of the vertical edges of the mounting plate contributes to increasing the latter's rigidity and increases handling safety by preventing finger cuts.

Dimensions

Plain mounting plate



Perforated mounting plate Telequick



(1) Cut-outs 11 x 26 with a pitch of 15 x 30.

Examples of perforated mounting plate installation

PB500825-19



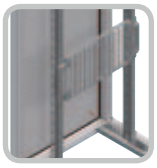
Perforated plate mounted on structure.

PB500826-23



Perforated plate mounted on technical vertical uprights.

PB500827-23



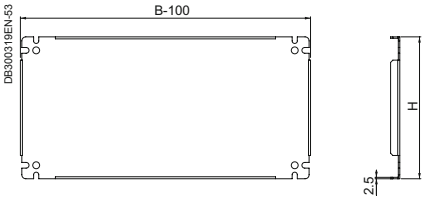
Perforated plate mounted on standard vertical uprights.

PB500828-22



Perforated plate mounted on cross rails.

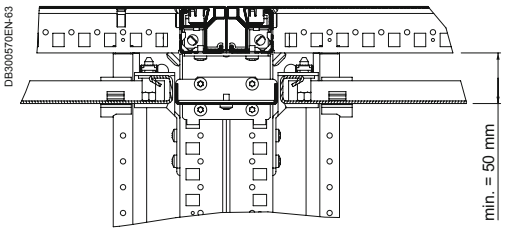
Partial mounting plate



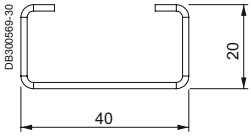
Mounting
Mounting plates for floor-standing enclosures

Dimensions and fixing

Intermediate mounting plate



Reinforcement for mounting plate



Mounting plate accessories

Self-tapping screw



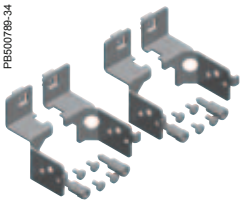
- Hexagonal head, 4.8 x 16 mm thread. Drilling capacity: thicknesses between 17.5/10e and 40/10e mm.
- **Supply:** 100 units. To be ordered in multiples of 100 (100, 200, 300, etc.).

Reference
NSYS16M5HS

Mounting

Mounting plate brackets for floor-standing enclosures

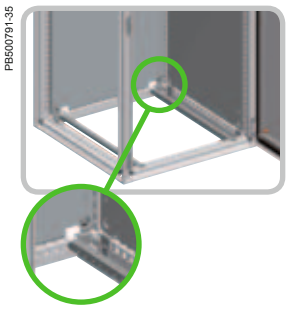
SM SF SMX SFX



SF SFX



Characteristics	Mounting plate fixing brackets		Orthogonal brackets
	■ For direct mounting on the structure of the enclosure. ■ Adjustable depth with a pitch of 25 mm.		■ Designed for the installation of mounting plates on the sides of the enclosure. ■ In the event of installing one plate in the back of the enclosure and one plate at the side, they must both be installed using orthogonal brackets. ■ **Spacial SFX:** in order to mount the lateral mounting plate is necessary to remove the one on the back and its fixing brackets.
Material	Zinc-coated steel		Zinc-coated steel
Maximum load	4 brackets: 600 kg		4 brackets: 600 kg
Supply	Four brackets and fixing elements		Four brackets and fixing elements
References			
	Spacial SF	**Spacial SM, Spacial SFX, Spacial SMX**	
	NSYSFPB	**NSYSMPB**	**NSYSMPSB**

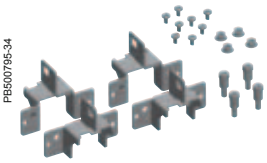


Mounting
Mounting plate brackets for floor-standing enclosures

SF



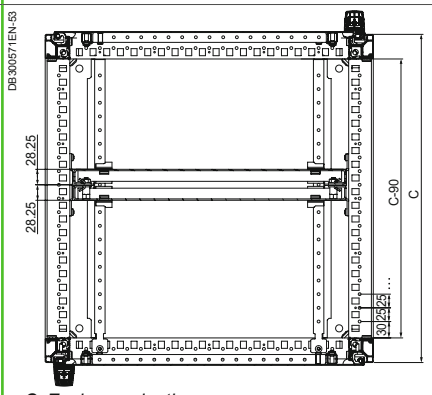
SF



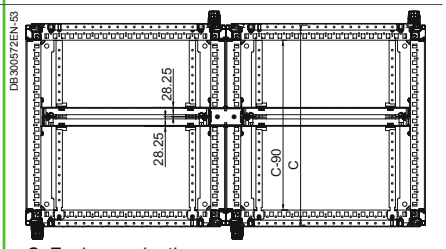
SF SFX



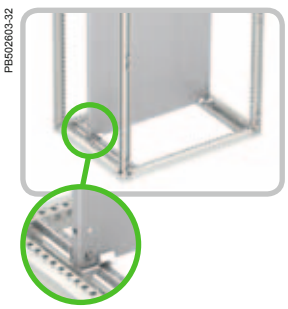
	Mounting plate sliding rails		Brackets for fixing mounting plates in back-to-back position	Brackets for fixing intermediate mounting plates in back-to-back position
	■ Rails which the mounting plate slides along when inserted in the enclosure. ■ Once the mounting plate is installed and fixed to the brackets, the sliding rails can be removed to maximise the cable passage surface, and can be installed depthwise in other positions.		■ Doubling the mounting surface. ■ Adjustable with a pitch of 25 mm.	■ Doubling the mounting surface. ■ Adjustable with a pitch of 25 mm.
	Zinc-coated steel		Zinc-coated steel	Zinc-coated steel
	-		-	-
	Two rails and fixing elements		Four brackets for fixing back-to-back and fixing elements	2 brackets for fixing intermediate plates back-to-back and fixing elements
	Depth (mm)			
	400	**NSYSMPS4**	**NSYSBTB**	**NSYSIBTB**
	500	**NSYSMPS5**		
	600	**NSYSMPS6**		
	800	**NSYSMPS8**		

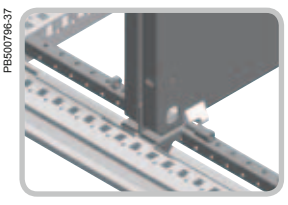


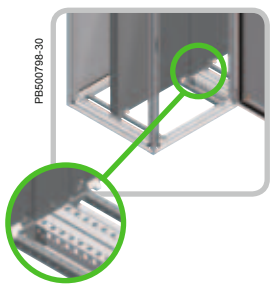
C: Enclosure depth.



C: Enclosure depth.

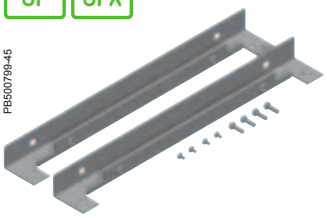






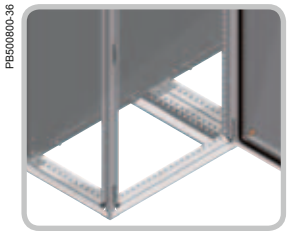
Mounting
Mounting rails for floor-standing enclosures

SF SFX



Characteristics	Side entry rails for the mounting plate
	■ Side entry device for the mounting plates when coupling **Spacial SF** enclosures or **Spacial SFX**. ■ The mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.
Material	Zinc-coated steel
Supply	Two rails and fixing elements

Dimensions (mm)		References
Width (B)	**Depth (C)**	
600	-	**NSYSMPSE6**
800	-	**NSYSMPSE8**
1000	-	**NSYSMPSE10**
1200	-	**NSYSMPSE12**
-	300	-
-	400	-
-	500	-
-	600	-
-	800	-



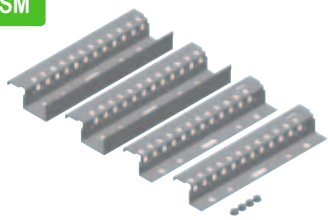
Examples of combination

Length of joined Spacial SF enclosures (mm)	Example of Spacial SF enclosure combination width (mm) (B)	Example of combining mounting plates by width (mm)	Useful length (mm)
1200	1200	600 + 800	1192
1400	600 + 800	600 + 1000	1392
1600	2 x 800	800 + 1000	1592
1800	3 x 600	800 + 1200	1792
2000	2 x 1000	1000 + 1200	1992
2200	600 + 2 x 800	1200 + 1200	2192
2400	3 x 800	1600 + 1000	2392
		3 x 600 + 1000	2384
2600	2 x 1000 + 600	1600 + 1200	2592
		3 x 600 + 1200	2584
2800	2 x 1000 + 800	4 x 800	2784
3000	3 x 1000	3 x 800 + 1000	2984
3200	2 x 1000 + 1200	3 x 800 + 1200	3184
3400	3 x 800 + 1000	800 + 3 x 1000	3384
3600	3 x 1200	4 x 1000	3584
3800	800 + 3 x 1000	600 + 3 x 1200	3784
4000	4 x 1000	800 + 3 x 1200	3984

Mounting
Mounting rails for floor-standing enclosures

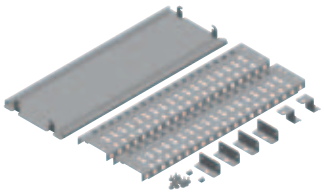
SM

PB500804-45



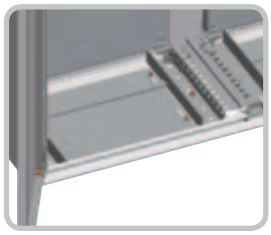
SF

PB500801-45

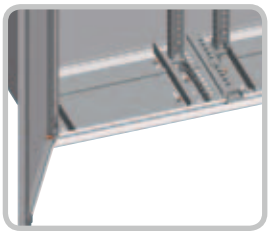


	Top/bottom adjustment rails	Kit for adapting two-door enclosures
	■ Allows the installation of two mounting plates or vertical uprights in enclosures with a width of 1200 mm, as if in two independent enclosures. ■ A set of mounting plate fixing brackets ref. **NSYSMPB** is required for this. ■ Optional installation of an intermediate mounting plate.	■ Allows the installation of two mounting plates as if in two independent enclosures. ■ A set of brackets for fixing mounting plates ref. **NSYSMPB** is required for this. ■ Option of installing an intermediate mounting plate. ■ Valid for enclosures with widths of 1200 and 1600 mm. ■ In the event of installing a cable-gland plate for a width of 1200 mm, it is necessary to install two with a width of 600 mm, and for widths of 1600 mm, two with a width of 800 mm.
	-	-
	2 rails, top and bottom, and fixing elements	Two 90 mm cross rails, cable-gland plate support, 2 brackets for central fixing of the roof and fixing elements
	References	**References**
	-	-
	-	-
	-	-
	-	-
	NSYSTBR3	-
	NSYSTBR4	**NSYSMP2D4**
	NSYSTBR5	**NSYSMP2D5**
	NSYSTBR6	**NSYSMP2D6**
	-	**NSYSMP2D8**

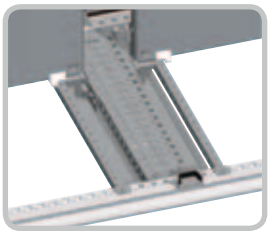
PB500805-75



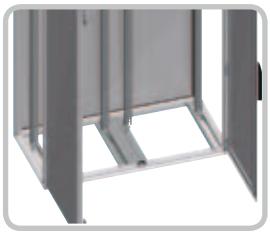
PB500806-75



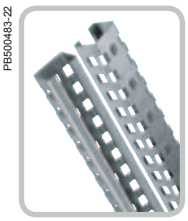
PB500802-36



PB500803-34

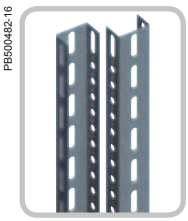


Mounting
Uprights for floor-standing enclosures



Telequick

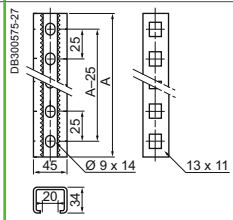
SM | SF | SD | SMX | SFX | SDX | PLA | PHD

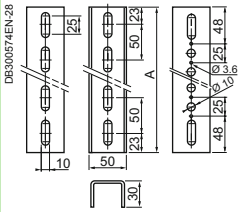


Telequick

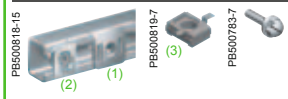
SM | SF | SMX | SFX

Characteristics	Technical uprights		Standard uprights	
	■ Vertical uprights for fixing plates and rails. ■ They can be fixed to the fixing brackets of the mounting plate or to the uprightfixing bracket (ref. **NSYMFB**). ■ Adjustable height in steps of 2.5 mm (with quarter-turn nuts, ref. **NSYSNM6** or **NSYSNM8**) or 25 mm (with cage nuts, ref. **NSYCNM6** or **NSYCNM8**).		■ Vertical uprights for fixing plates and rails. ■ They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. **NSYMFB**. ■ Adjustable height with a pitch of 25 or 50 mm.	
Material	Galvanised steel		Galvanised steel	
Thickness	20/10e mm		20/10e mm	
Supply	2 standard uprights		2 standard vertical uprights	
Enclosure dimensions (mm)	**Dimensions (mm)**	**References**	**Dimensions (mm)**	**References**
Height	**A**		**A**	
750	625	**NSYTVR7**	-	-
1000*	675	**NSYTVR8**	-	-
1000	875	**NSYTVR10**	-	-
1200	1075	**NSYTVR12**	-	-
1250	1125	**NSYTVR125**	-	-
1400	1275	**NSYTVR14**	-	-
1500	1375	**NSYTVR15**	-	-
1600	1475	**NSYTVR16**	-	-
1800	1675	**NSYTVR18**	1800	**NSYVR18**
2000	1875	**NSYTVR20****	2000	**NSYVR20**
2200	2075	**NSYTVR22**	2200	**NSYVR22**





Nuts and screws for technical uprights



Model	Supply (units)	References
M6 quarter-turn sliding nut (1)	10	**NSYSNM6**
M8 quarter-turn sliding nut (1)	10	**NSYSNM8**
M6 quarter-turn serrated sliding nut (2)	10	**NSYSNSM6**
M8 quarter-turn serrated sliding nut (2)	10	**NSYSNSM8**
M6 renovable nut (3)	50	**NSYCNM6**
M8 renovable nut (3)	50	**NSYCNM8**
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

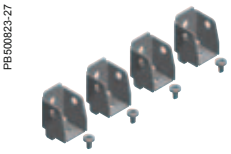
Nuts and screws for standard uprights



Model	Supply (units)	References
M6 flat nut	50	**NSYFNM6**
M8 flat nut	50	**NSYFNM8**
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

** Control desk.*
*** Not compatible with PLA or PHD 2000 mm high enclosures. Use 2 x NSYTVR10.*
(1) M6 quarter-turn sliding nut
(2) M6 quarter-turn serrated sliding nut
(3) M6 renovable nut

Bracket for fixing uprights



■ Brackets for fixing the uprights, standard or technical, at the same level as the structure, obtaining a greater working surface inside the enclosure.
■ They allow two pairs of uprights to be fixed back to back, doubling the working surface.
■ The brackets are fixed to the structure by means of M6 self-tapping screws.
■ Adjustable depth with a pitch of 25 mm.
■ **Material:** zinc-coated steel.
■ **Supply:** four brackets for fixing uprights and fixing elements.

Reference
NSYMFB

Mounting
Other support brackets

Telequick SM SF SD SMX SFX SDX


PB502723-20


PB502722-14

Telequick

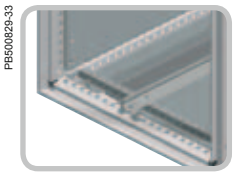

PB501769-16

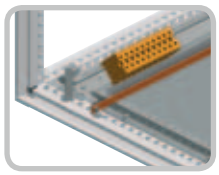
Telequick

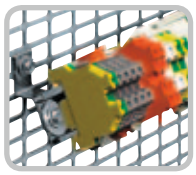

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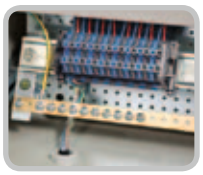

PB502724-17

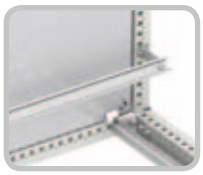
Characteristics	Rail support bracket	Combined support bracket	Terminal-block support bracket	Combined fixing lugs for the earthing strip	Combined support bracket (vertical)
	Bracket for fixing rails at an angle of 45°.	Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.	■ They allow the mounting of a DIN rail. ■ Tilted to 45°.	■ They allow the mounting of an earth-collector rail and a DIN rail. ■ Tilted to 30°. ■ Earthing strip, ref. **NSYECB1M153**. See page 300.	Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
Material	Zinc-coated steel	Zinc-coated steel	Treated steel	-	Zinc-coated steel
Installation	■ **Spacial SF:** mounted on the structure and/or mounting plates ■ **Spacial SM:** mounted on the bottom mounting rail and/or mounting plates	■ **Spacial SF:** directly on the structure and/or using mounting plates ■ **Spacial SM:** on the bottom adjustment rails and/or on mounting plates	-	To be fixed on mounting plate.	**Spacial SF/SM:** directly on the vertical structure and/or using mounting plates
Supply	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Ten combined support brackets and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	2 lugs and fixings	2 fixing lugs and fixing elements	10 brackets
References					
	NSYFB45	**NSYETF**	**NSYEDCO**	**NSYEDCOC**	**DZ5MS10**


PB500829-33


PB500831-34


PB500830-37

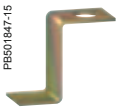

PB500830


PB502727-68

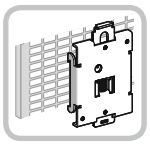
Telequick

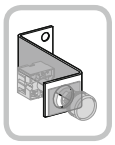

PB501851-10

Telequick


PB501847-15

Characteristics	Clicked support plate		Bracket for fixing control units (Ø 22)
	For screw mounted equipment. For mounting on 35 mm symmetric and double profile DIN rails or Telequick mounting plate.		To mount any 22 mm diameter device directly on mounting plates.
Material	Zinc-plate coated		-
Installation	-		-
Supply	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)		Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)
References	**A (mm)**		
	44 x 65 - 9 screws	**AX2DL01**	**DX1AP52**
	49 x 65 - 4 screws	**AX2DL02**	





Mounting
Cross rails and profiles for floor-standing enclosures

Telequick SM SF SD SMX SFX SDX

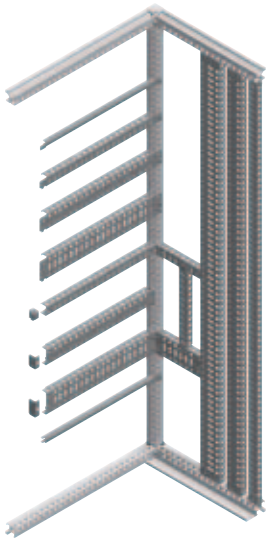
In the **Spacial SF**, **SM**, **SFX** and **SMX** enclosures, it is possible to create a fixing at any point of the inner volume, providing mounting planes with different widths, heights and depths.
In the case of the **Spacial SM**, it may be necessary to install vertical/horizontal adaptation profiles and 40-mm universal cross rails (1 row).

For the formation of structures inside the enclosure, it is possible to combine three types of cross rails:
- Universal cross rails of 40 (1 row), 65 (2 rows) and 90 mm (3 rows).
- Quick-fixing cross rails of 40 (1 row), 65 (2 rows) and 90 mm (3 rows).
- Light cross rails.
- Mounting plate sliding rails, see page 223.

PB500465-55

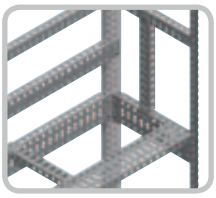


PB500834-38



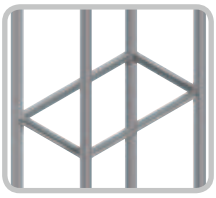
Combination examples

PB500486-29



Spacial SF and SFX: the cross rails can be fixed to the structure and among each other, offering multiple possibilities.

PB500835-27



The universal cross rails allow installations at the same level, around the entire perimeter of the enclosure.
To perform this type of installation in a **Spacial SM** enclosure, the vertical adaptation profile and the vertical 40-mm universal cross rail (1 row) are required, mounted in the back of the enclosure.

PB500837-27

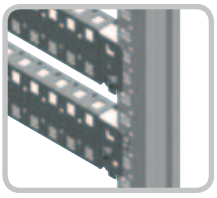


Spacial SF: the universal cross rails can be installed in vertical position.

Mounting
Cross rails and profiles for floor-standing enclosures

Combination examples

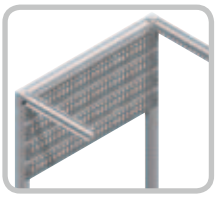
PB500838-26



The quick-fixing cross rails can be fixed directly to the structure, quickly and easily.
■ **Spacial SF and SFX*:**
□ They clip onto the structure and are fixed by M6 self-tapping screws, or optionally with M6 caged nuts.
■ **Spacial SM:**
□ Possibility of clipping onto the adaptation profile or another cross rail.
□ Fixing by means of M6 self-tapping screws.
□ Fixing by means of M6 caged nuts.

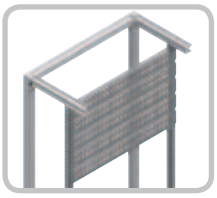
** In enclosures Spacial SFX is not possible to mount it in depth.*

PB500839-30



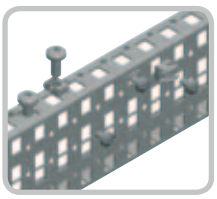
The quick-fixing cross rails can be used as a support for equipment in the back of the enclosure or offset with a pitch of 25 mm, using two universal cross rails in vertical position.

PB500841-24



The 40 mm universal cross rails (1 row) used as depth-adjustable uprights with a pitch of 25 mm allow the installation of a multitude of supports for installing switchgears. The height may be adjusted with a pitch of 25 mm.

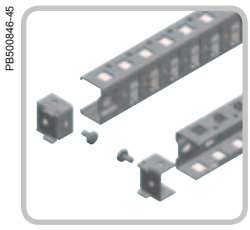
PB500842-30

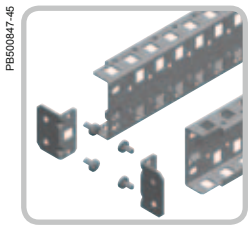


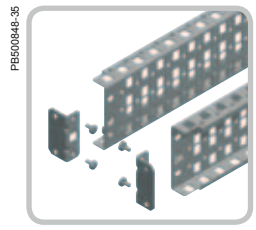
The main fixing point to the quick-fixing cross rails is the 5.2 mm drill hole for M6 self-tapping screw, although they can also receive M6 and M8 caged nuts.

Mounting
Cross rails for floor-standing enclosures

Telequick SM SF SD SMX SFX SDX



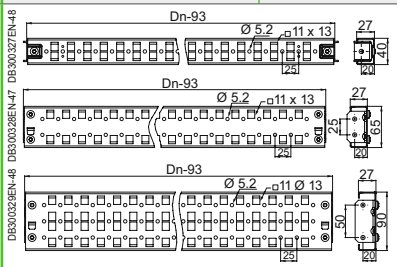




Characteristics	Universal cross rails
	■ Various versions available, according to the width: 40 (1 row), 65 (2 rows) and 90 mm (3 rows), perforated with a pitch of 25 mm for the formation of structures inside the enclosure. ■ They allow the performance of any type of assembly, as well as the adjustment of the depth of the various types of installation systems (partial plates, 19" racks, etc.).
Material	Zinc-coated steel
Thickness	15/10e mm
Supply	Two universal cross rails, four supports for universal cross rails and fixing elements

References

H or W or D (mm)	Maximum load (kg) by rail	40 mm (1 row)	65 mm (2 rows)	90 mm (3 rows)
300	70	**NSYSUCR4030**	-	-
	110	-	**NSYSUCR6530**	-
	130	-	-	**NSYSUCR9030**
400	60	**NSYSUCR4040**	-	-
	100	-	**NSYSUCR6540**	-
	120	-	-	**NSYSUCR9040**
500	60	**NSYSUCR4050**	-	-
	90	-	**NSYSUCR6550**	-
	120	-	-	**NSYSUCR9050**
600	50	**NSYSUCR4060**	-	-
	80	-	**NSYSUCR6560**	-
	110	-	-	**NSYSUCR9060**
800	40	**NSYSUCR4080**	-	-
	70	-	**NSYSUCR6580**	-
	100	-	-	**NSYSUCR9080**
1000	30	**NSYSUCR40100**	-	-
	50	-	**NSYSUCR65100**	-
	70	-	-	**NSYSUCR90100**
1200	20	**NSYSUCR40120**	-	-
	50	-	**NSYSUCR65120**	-
	70	-	-	**NSYSUCR90120**
1400	(1)	**NSYSUCR40140**	**NSYSUCR65140**	**NSYSUCR90140**
1600	(1)	**NSYSUCR40160**	**NSYSUCR65160**	**NSYSUCR90160**
1800	(1)	**NSYSUCR40180**	**NSYSUCR65180**	**NSYSUCR90180**
2000	(1)	**NSYSUCR40200**	**NSYSUCR65200**	**NSYSUCR90200**
2200	(1)	**NSYSUCR40220**	**NSYSUCR65220**	**NSYSUCR90220**



(1) For vertical assembly only.

The universal cross rails allow any type of installation to be performed.

Other dimensions

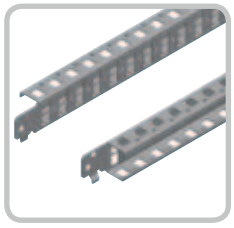
- For assembly in other positions, and between cross rails.
- **Material:** zinc-coated steel.
- **Thickness:** 15/10e mm.
- **Supply:** two universal cross rails, four supports for universal cross rails and fixing elements.

H or W or D (mm)	Maximum load (kg) by rail	References 40 mm (1 row)	90 mm (3 rows)
700	50	**NSYSUCR4070**	-
	110	-	**NSYSUCR9070**
900	40	**NSYSUCR4090**	-
	100	-	**NSYSUCR9090**
1100	30	**NSYSUCR40110**	-
	70	-	**NSYSUCR90110**

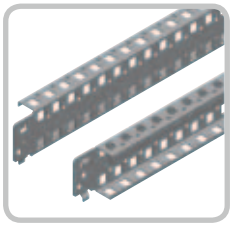
(2) Cross rails only for fixing cables.

Mounting
Cross rails for floor-standing enclosures

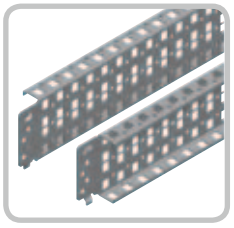
PB500850-34



PB500851-30



PB500852-30

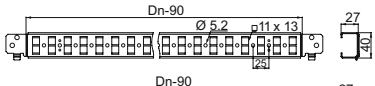


Quick-fixing cross rails

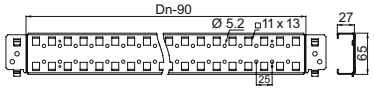
- Perforated with a pitch of 25 mm (Ø 5.2 mm).
- **Spacial SF:** they are fixed directly to the structure, quickly and safely. Clip-on plus screwing.
- **Spacial SM:** cross rails for depthwise fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position.

Zinc-coated steel		
-		
Two quick-fixing cross rails and fixing elements		
40 mm (1 row)	**65 mm (2 rows)**	**90 mm (3 rows)**
-	-	-
-	-	-
-	-	-
NSYSQCR4040	-	-
-	**NSYSQCR6540**	-
-	-	**NSYSQCR9040**
NSYSQCR4050	-	-
-	**NSYSQCR6550**	-
-	-	**NSYSQCR9050**
NSYSQCR4060	-	-
-	**NSYSQCR6560**	-
-	-	**NSYSQCR9060**
NSYSQCR4080	-	-
-	**NSYSQCR6580**	-
-	-	**NSYSQCR9080**
NSYSQCR40100	-	-
-	**NSYSQCR65100**	-
-	-	**NSYSQCR90100**
NSYSQCR40120	-	-
-	**NSYSQCR65120**	-
-	-	**NSYSQCR90120**
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

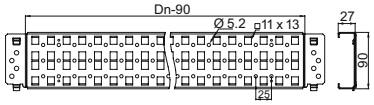
DB300330EN-48



DB300331EN-48



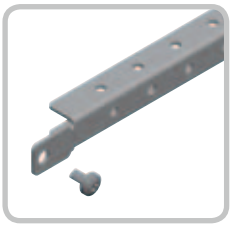
DB300332EN-48



Mounting
Cross rails for floor-standing enclosures

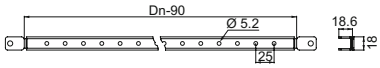
SM SF SFX

PB500853-37

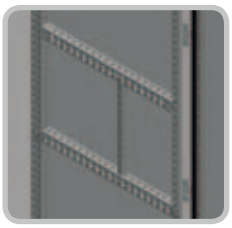


Characteristics	Light cross rails
	■ **Spacial SF and SFX:** direct fixing to the structure or between cross rails. ■ **Spacial SM:** fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position. ■ Adjustable with a pitch of 25 mm. ■ The light cross rails are equipped with a row of drill holes with a diameter of 5.2 mm and a pitch of 25 mm, which allows fixing with an M6 self-tapping screw, ref. **NSYST30M6S**.
Material	Zinc-coated steel
Thickness	-
Supply	Two light cross rails and fixing elements
Width/Depth (mm)	**References**
400	**NSYSLCR40**
500	**NSYSLCR50**
600	**NSYSLCR60**
800	**NSYSLCR80**
Depth (mm)	
400	-
500	-
600	-
800	-

DB300333EN-49



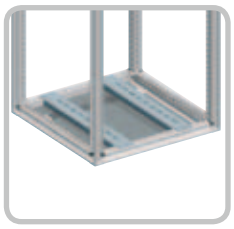
PB500854-35



Mounting
Cross rails for floor-standing enclosures

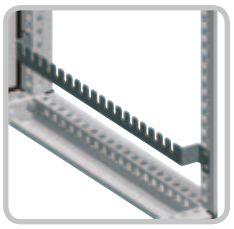
SF

PB500855-29

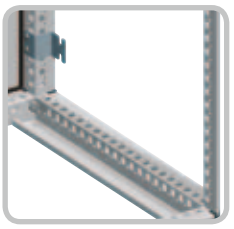


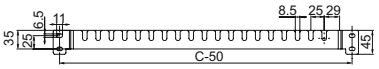
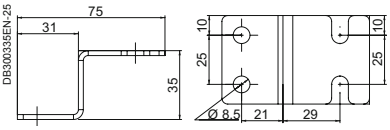
SF

PB500861-35



PB500862-34



	Rails for heavy loads		Cross rail for Lütze chassis	Support for Lütze chassis
	■ They can be mounted with a cable-gland plate or with a previously mounted mounting plate. ■ Laterally adjustable with a pitch of 25 mm. ■ Elongated holes, for adjusting the centre-to-centre distance of the switchgear.		Cross rail for fixing and adjusting the depth of the Lütze chassis.	Support for installing Lütze chassis in the back of the enclosure.
	Galvanised steel		Galvanised steel	Galvanised steel
	30/10[e] mm		25/10[e] mm	25/10[e] mm
	2 rails for heavy loads and fixing elements		6 cross rails for Lütze chassis and fixing elements	6 supports and fixing elements
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	Maximum load (kg)	**References**	**References**	**Reference**
	575	**NSYHLCR40**	**NSYLCR40**	**NSYLSUP**
	525	**NSYHLCR50**	**NSYLCR50**	
	500	**NSYHLCR60**	**NSYLCR60**	
	475	**NSYHLCR80**	-	
			DB300334EN-49 	DB300335EN-25 

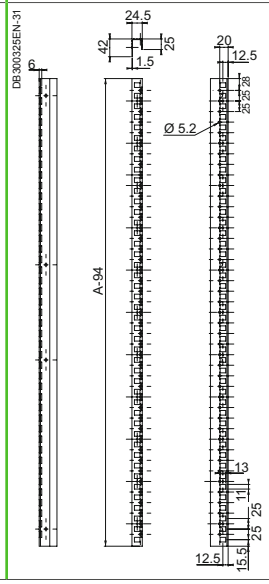
Mounting
Profiles for floor-standing enclosures

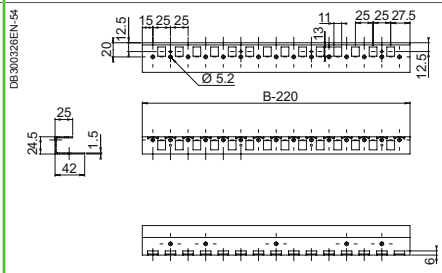
SM



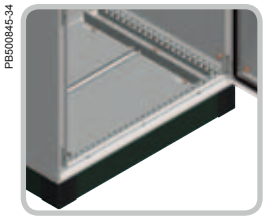


Characteristics	Vertical adaptation profiles	Horizontal adaptation profiles
	■ The vertical adaptation profiles provide fixing points at the entrance to the enclosure. ■ Fixing on the screws of the hinge and catches of the lock. ■ Allows the depthwise fixing of cross rails, etc.	■ The horizontal adaptation profiles provide fixing points at the entrance to the enclosure.
Material	Zinc-coated steel	Zinc-coated steel
Thickness	15/10^{e} mm	15/10^{e} mm
Supply	2 vertical adaptation profiles and fixing screws	2 horizontal adaptation profiles and fixing screws
Dimensions (mm)	**References**	
Height (A)		
1200	**NSYSMVR12**	-
1400	**NSYSMVR14**	-
1600	**NSYSMVR16**	-
1800	**NSYSMVR18**	-
2000	**NSYSMVR20**	-
Width (B)		
600	-	**NSYSMHR6**
800	-	**NSYSMHR8**
1000	-	**NSYSMHR10**
1200	-	**NSYSMHR12**
1600	-	**NSYSMHR16**





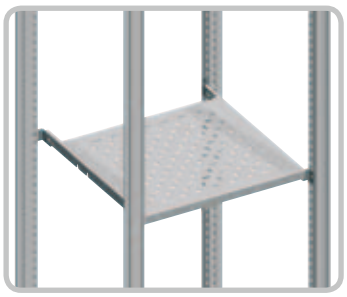




Mounting
Trays

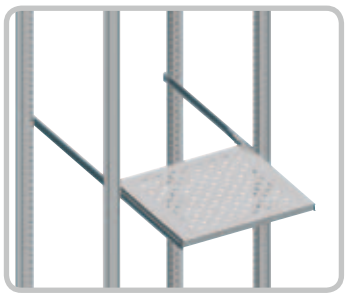
SM SF

PB500523-44



Tray installed on the structure.

PB500669-42



Telescopic rails fixed to the structure.

Characteristics		Fixed tray		Telescopic rails
		■ Options for fixing the tray to the enclosure: □ If the tray has the same dimensions as the enclosure: - **Spacial SF:** direct fixing to the structure. - **Spacial SFX:** instalation possible only with universal cross rails, see on page 230. - **Spacial SM:** fixing by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position. □ If the tray is smaller than the dimensions of the enclosure: fixing on depth cross rails. - Depth-adjustable tray with a pitch of 25 mm. ■ Provided with cut-outs for improving air circulation inside.		■ **Spacial SF:** installation directly on the structure of the enclosure or on universal cross rails. ■ **Spacial SFX:** instalation possible only with universal cross rails, see on page 230. ■ **Spacial SM:** installation by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position, or on horizontal universal cross rails. ■ The installation of a telescopic tray consists of the following: □ 1 fixed tray. □ 2 telescopic rails. ■ End-of-travel stop of the rails in open and closed position.
Material		Steel		Zinc-coated steel
Finish		Painted with epoxy-polyester resin		-
Colour		RAL 7035 grey		-
Maximum load		150 kg evenly distributed		50 kg evenly distributed
Supply		One fixed tray and fixing elements		Two telescopic rails and fixing elements
Depth	**Width**	**Tray dimensions (mm)**	**References**	**References**
400	600	482 x 290 x 30	**NSYFXT6040**	**NSYTTG40**
	800	682 x 290 x 30	**NSYFXT8040**	
500	600	482 x 390 x 30	**NSYFXT6050**	**NSYTTG50**
	800	682 x 390 x 30	**NSYFXT8050**	
600	600	482 x 490 x 30	**NSYFXT6060**	**NSYTTG60**
	800	682 x 490 x 30	**NSYFXT8060**	

Handle for telescopic trays

PB500671-18



■ Designed for easy extraction of the sliding trays.
■ **Material:** polyamide 6 (black).
■ **Supply:** two units and fixing elements.

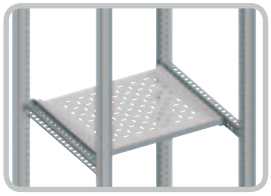
Reference
NSY1TH

⊕ Withstands loads of up to 150 kg.

SM SF
SMX SFX

Tray cross rails

PB500668-34



PB500672-34



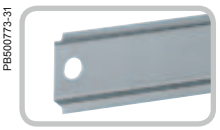
■ Allow the installation of fixed trays and telescopic rails. Quick and universal cross rails, see page 230.

Tray installed on cross rails.

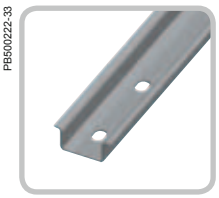
Dimensions (mm)	Universal cross rail	Quick-fixing cross rail
Depth	**40 mm (1 row)**	**40 mm (1 row)**
400	**NSYSUCR4040**	**NSYSQCR4040**
500	**NSYSUCR4050**	**NSYSQCR4050**
600	**NSYSUCR4060**	**NSYSQCR4060**
800	**NSYSUCR4080**	**NSYSQCR4080**

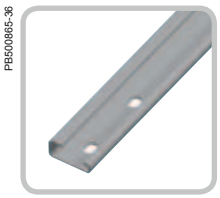
Mounting
Rails

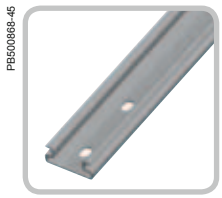
Telequick
S3D S3X PLM



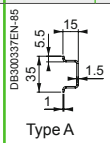
Telequick
SM SF SD
SMX SFX SDX



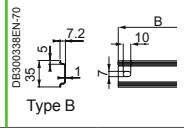




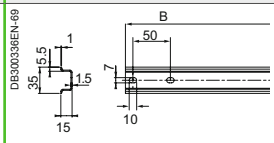
Characteristics		Symmetric mounting rail for the wall-mounting enclosures		Symmetric DIN rails for floor-standing enclosures	Asymmetric DIN rails for the floor-standing enclosures	Double-profile DIN rails	
		2 types: ■ Type A: 35 x 15 mm. ■ Type B: 35 x 7.5 mm.		Ensure horizontal continuity in case of enclosure assembly. Rail type: ■ Type A: 35 x 15 mm.	Ensure horizontal continuity in the case of enclosure assembly.	■ They combine the advantages of symmetric and asymmetric rails. ■ Quick installation of terminals according to standard DIN 46277/1.	
Material		Zinc-coated steel		Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	
Standards		IEC 715		IEC 715	IEC 715	-	
Thickness		■ Type A: 15/10e mm ■ Type B: 10/10e mm		15/10e mm	15/10e mm	15/10e mm	
Fixing		Fixed to mounting plates or another fixing elements, uprights not included in the supply		Fixed to the standard or technical uprights (see page 226) or directly to the structure	Fixed to the standard or technical uprights (see page 226) or directly to the structure	Fixed to the standard or technical uprights (see page 226) or directly to the structure	
Supply		10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)		10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	
Dimensions (mm)		**Type**	**References**	**References**	**References**	**Type**	**References**
Enclosure	**Rail length (B)**						
300	250	B	**NSYSDR30B**	-	-	W*	**NSYDPR25**
400	350	B	**NSYSDR40B**	-	-	W*	**NSYDPR35**
500	450	A	**NSYSDR50A**	-	-	W*	**NSYDPR45**
600	550	A	**NSYSDR60A**	-	-	W*	**NSYDPR55**
	588	-	-	**NSYSDR60**	**NSYADR60**	F**	**NSYDPR60**
700	650	-	-	-	-	W*	**NSYDPR65**
800	750	A	**NSYSDR80A**	-	-	W*	**NSYDPR75**
	788	-	-	**NSYSDR80**	**NSYADR80**	F**	**NSYDPR80**
1000	950	A	**NSYSDR100A**	-	-	-	-
	988	-	-	**NSYSDR100**	**NSYADR100**	F**	**NSYDPR100**
1200	1188	-	-	**NSYSDR120**	**NSYADR120**	F**	**NSYDPR120**

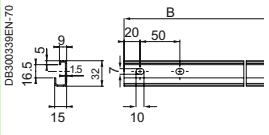


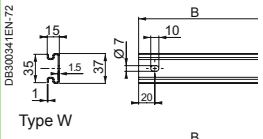
Type A



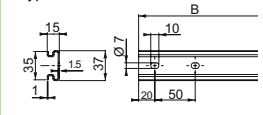
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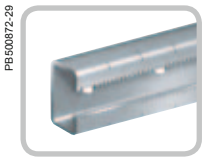
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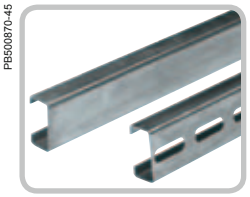


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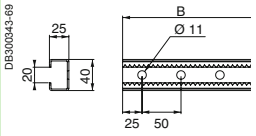
** For wall-mounting enclosure. ** For floor-standing enclosure.*
(1) Not perforated.

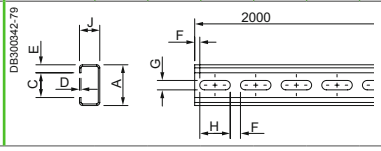
Mounting
Rails


PB500872-29


PB500870-45

Characteristics	Serrated C-shaped rail for heavy loads	Symmetric C-shaped rails									
	Marked in steps of 25 mm to facilitate switchgear positioning.	Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.									
Material	Zinc-coated steel	Galvanised steel									
Standards	-	-									
Thickness	20/10e mm	-									
Fixing	-	They are fixed to the structure and to one another by means of fixing elements									
Supply	2 rails with a length of 2 m	References by unit. Order by multiples of the units specified in the supply									
Dimensions (mm)	**References**	**Type**	**Dimensions (mm)**								**Supply**	**References**
Rail length (B)			**A**	**J**	**C**	**D**	**E**	**F**	**G**	**H**		
1500	**AM1EC115**	-	-	-	-	-	-	-	-	-	-	-
2000	**AM1EC200**	C20 (1)	21	11	10	1.5	5.5	-	-	-	20	**NSYCN20**
		C20	21	11	10	1.5	5.5	5	6.2	15	20	**NSYCNT20**
		C40 (1)	40	20	24	1.5	8	-	-	-	20	**NSYCN40**
		C40	40	20	24	1.5	8	10	8.5	30	20	**NSYCNT40**





** For wall-mounting enclosure. ** For floor-standing enclosure.*
(1) Not perforated.

Nuts for symmetric C-shaped rails


PB500871-16

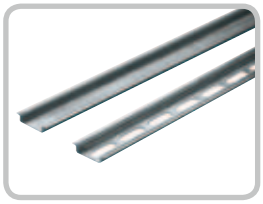

PB500871-16

Characteristics		Combiplas nut		Metal sliding nut	
Rail type	**Nuts type**	**Supply**	**References**	**Supply**	**References**
C20	M3	-	-	-	-
	M4	100	**NSYBN204**	100	**NSYB204**
	M6	100	**NSYBN206**	-	-
C40	M4	50	**NSYBN404**	100	**NSYB404**
	M6	50	**NSYBN406**	-	-
	M8	50	**NSYBN408**	-	-
C60	M6	20	**NSYBN606**	100	**NSYB406**
	M8	20	**NSYBN608**	-	-
	M10	20	**NSYBN610**	-	-

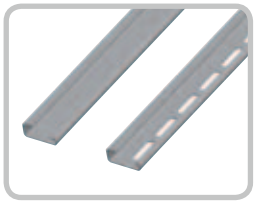
Mounting
2000 mm rails

Telequick

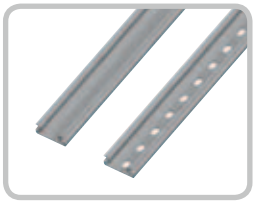
PB500864-36



PB500867-37

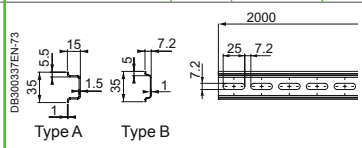


PB500869-42

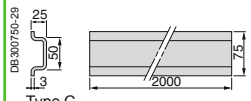


Characteristics		Symmetric rails				Asymmetric DIN rails	Double-profile DIN rails
Material		Galvanized steel, zinc-coated steel or aluminium				Galvanised steel	Galvanised steel
Thickness		-				-	15/10[e] mm
Supply		-				20 rails with a length of 2 m. References by unit. Order by multiples of 20 units (20, 40, etc.)	20 rails with a length of 2 m. References by unit. Order by multiples of 20 units (20, 40, etc.)
Length (mm)	**Perforations**	**Material**	**Type**	**Supply**	**References**	**References**	**References**
2000	Perforated	Galvanized steel	A	20	**NSYSDR200D**	**NSYADR200D**	**NSYDPR200D**
			B	20	**NSYSDR200BD**		**NSYDPR200T***
	Not perforated	Galvanized steel	A	20	**NSYSDR200**	**NSYADR200**	**NSYDPR200**
			B	20	**NSYSDR200B**		
		Zinc-coated steel	C	6	**AM1DL201**		
		Aluminium	D	10	**AM1EA200**		

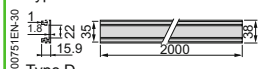
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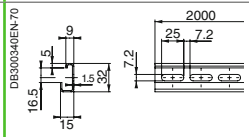
DB300750-29



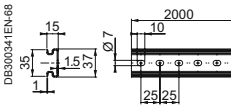
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DB300340EN-70

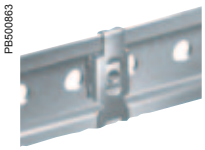


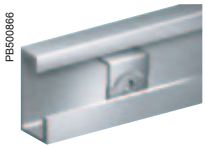
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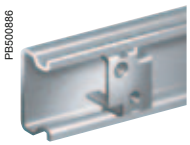


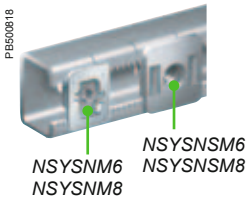
** 10/10[e] mm thickness.*

Mounting
Rail accessories





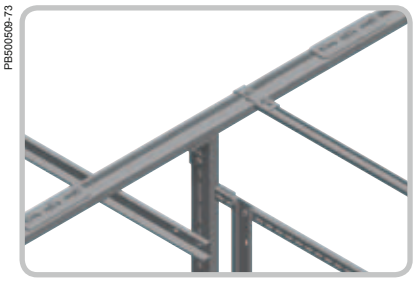




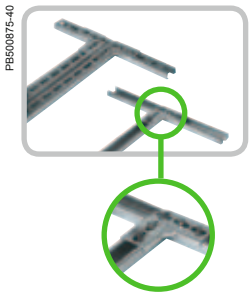
Characteristics	Nuts				
	For symmetric rails	For asymmetric DIN rails, 2000 mm version	For double-profile DIN rails	For serrated C-shaped rails	
	Clip-on nut.	Quarter-turn sliding nut.	Quarter-turn sliding nut.	Quarter-turn sliding nuts.	
Supply	100	100	100	10	
Type	**References**				
M3	-	-	**AF1CF34**	-	-
M4	**AF1CG4**	**DZ5ME8**	**AF1CF34**	-	-
M5	**AF1CG5**	**DZ5ME9**	**AF1CF56**	-	-
M6	**AF1CG6**	**DZ5ME5**	**AF1CF56**	**NSYSNM6**	**NSYSNSM6**
M8	-	-	-	**NSYSNM8**	**NSYSNSM8**

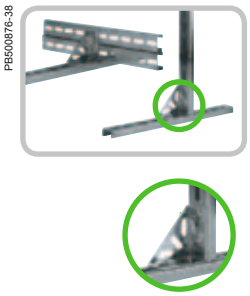
Mounting
Connectors for symmetric C-shaped rails

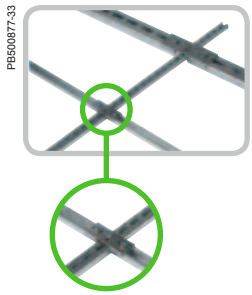
Examples
Combinations with connectors for symmetric C-shaped rails



■ The connectors enable the formation of chassis or frames and structures for fixing switchgear, in any position inside the enclosures, allowing the fixing of DIN rails or other elements.
■ See symmetric C-shaped rails.

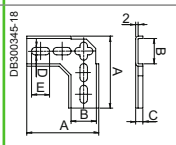


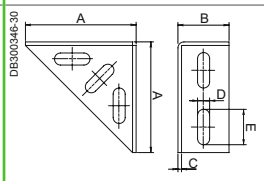


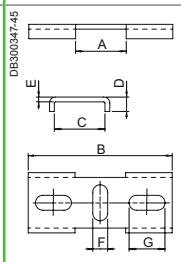


Characteristics	EMA connectors	EVA connectors	UCA connectors
	To joint two symmetric C-shaped rails, C20 and C40 types, at right angles; they can also be used to obtain a T-shaped assembly.	To join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers or supports at a different level.	To join symmetric C-shaped rails, types C20 and C40, forming a cross-shaped assembly of three rails located on the same plane, for example inside a frame.
Material	Zinc-coated steel		
Thickness	20/10[e] mm	-	-
Supply	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

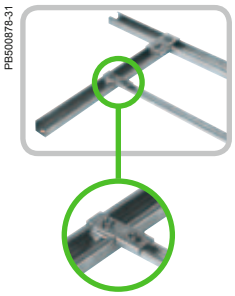
Dimensions (mm)								References		
A	B	C	D	E	F	G	H			
60	21.3	6	6.2	15	-	-	-	**NSYEMA20**	-	-
100	40.3	10	8.5	25	-	-	-	**NSYEMA40**	-	-
43	19	2	6.2	15	-	-	-	-	**NSYEVA20**	-
78	36	2.5	8.5	25	-	-	-	-	**NSYEVA40**	-
21.3	60	21.3	6	2	6.2	15	-	-	-	**NSYUCA22**
40.3	116	40.3	10	2.5	8.5	25	-	-	-	**NSYUCA44**
21.3	21.5	53.5	8	2	6.2	15	-	-	-	-
21.3	40.5	72.5	8	2	6.2	15	-	-	-	-
40.3	40.5	81	10	2.5	8.5	25	-	-	-	-
21.3	21.5	8	2	6.2	15	6.2	15	-	-	-
21.3	40.5	8	2	6.2	15	6.2	13	-	-	-
40.3	40.5	10	2.5	8.5	25	8.5	25	-	-	-
60	18	2	20	15	5	-	-	-	-	-
130	36	3	40	30	10	-	-	-	-	-
130	55	3	40	30	10	-	-	-	-	-
54	54	2	20	20	5	-	-	-	-	-
60	80	2	20	25	8	-	-	-	-	-
80	110	2	20	29	10	-	-	-	-	-

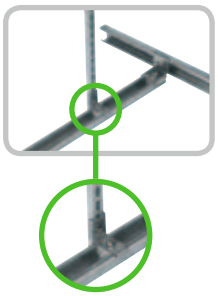


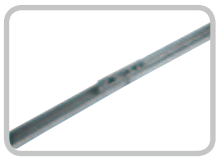


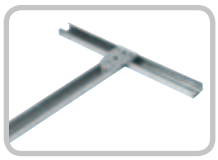


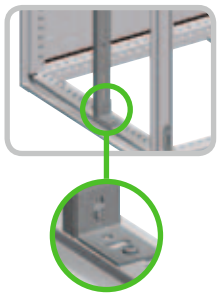
Mounting
Connectors for symmetric C-shaped rails

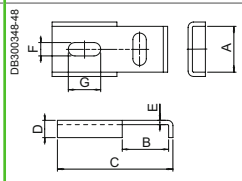
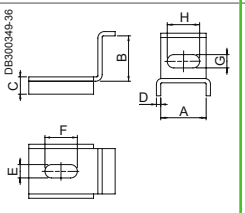
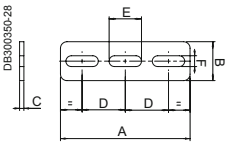
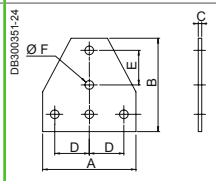
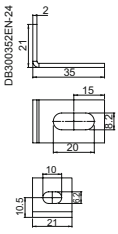
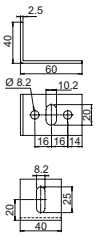
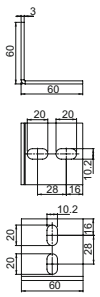

PB500878-31


PB500879-34

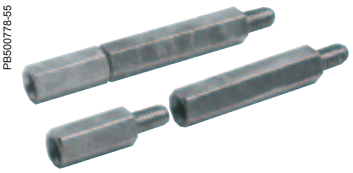

PB500880-29


PB500881-33


PB500883-28

	UTA connectors	ECA connectors	UR connectors	UT connectors	EN connectors		
	■ To create a T-shaped assembly between two symmetric C-shaped rails, C20 and C40 types, especially recommended for forming crossbars on chassis and frames. ■ The UTA42 connectors type allows C20 rails to be joined with C40 rails.	■ To form a cross-shaped assembly with two symmetric C-shaped rails, C20 and C40 types, located perpendicularly on different planes. ■ The ECA42 connector type makes it possible to join C20 rails with C40 rails.	■ For rectilinear joining of symmetric C-shaped rails. ■ Recommended when the standard length is not sufficient or for maximising fractions.	To form T-shaped assemblies between symmetric C-shaped rails. They are used to form crossbars on frames and structures.	To create L-shaped assemblies with plane change in the symmetric C-shaped rails, between them or with any other section.		
	-	-	-	-	-		
	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)		
	-	-	-	-	**NSYEN20**	**NSYEN40**	**NSYEN60**
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	NSYUTA22	-	-	-			
	NSYUTA42	-	-	-			
	NSYUTA44	-	-	-			
	-	**NSYECA22**	-	-			
	-	**NSYECA42**	-	-			
	-	**NSYECA44**	-	-			
	-	-	**NSYUR20**	-			
	-	-	**NSYUR40**	-			
	-	-	**NSYUR60**	-			
	-	-	-	**NSYUT20**			
	-	-	-	**NSYUT40**			
	-	-	-	**NSYUT60**			
	DB300348-48 	DB300349-36 	DB300350-28 	DB300351-24 	DB300352EN-24 	DB300353EN-22 	DB300354EN-25 

Mounting
Spacers

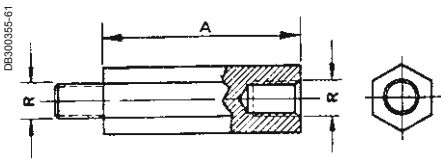




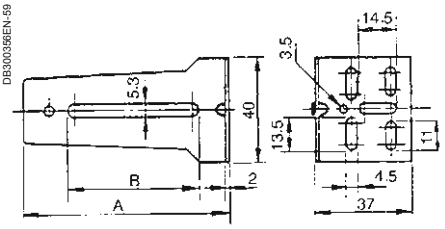
Characteristics	Hexagonal spacers	ETU modular spacers
	■ Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked together to achieve variable heights with gradual elevation. ■ Their assembly requires M6 or M8 caged nuts.	Modular spacers for installing devices or rails at a different level from that achieved with the basic chassis or mounting plate.
Material	-	Zinc-coated steel
Installation	If used to raise a mounting plate, the maximum load of the mounting plate is decreased	-
Supply	100 hexagonal connectors. References by unit. Order by multiples of 100 units (100, 200, 300, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

References

Thread type (R)	Spacer height (mm) (A)	
M5	10	**NSYE1025**
M5	15	**NSYE1525**
M5	20	**NSYE2025**
M6	10	**NSYEX106**
M6	12	**NSYEX126**
M6	14	**NSYEX146**
M6	16	**NSYEX166**
M6	18	**NSYEX186**
M6	20	**NSYEX206**
M6	30	**NSYEX306**
M6	40	**NSYEX406**
M6	50	**NSYEX506**
M6	100	**NSYEX1006**
M8	15	**NSYEX158**
M8	20	**NSYEX208**
M8	30	**NSYEX308**
M8	40	**NSYEX408**
M8	50	**NSYEX508**
M8	60	**NSYEX608**
M8	100	**NSYEX1008**



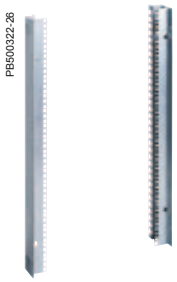
A (mm)	B (mm)	
48	25	**NSYETU48**
58	25	**NSYETU58**
79	55	**NSYETU79**
118	55	**NSYETU118**



Combination of spacers	Minimum height (mm)	Maximum height (mm)
NSYETU48 + NSYETU48	53	64
NSYETU48 + NSYETU58	63	74
NSYETU48 + NSYETU79	85	95
NSYETU48 + NSYETU118	124	134
NSYETU58 + NSYETU58	73	84
NSYETU58 + NSYETU79	94	104
NSYETU58 + NSYETU118	134	144
NSYETU79 + NSYETU79	84	125
NSYETU79 + NSYETU118	124	164
NSYETU118 + NSYETU118	164	204

Mounting
19" Chassis

S3D S3X





Characteristics		19" fixed chassis for wall-mounting enclosure		19" swing chassis for wall-mounting enclosure	
		■ 19" fixed chassis comprising 2 19" uprights with fixing. ■ Adjustable in depth by fixing on the step slides in accessories.		19" swing chassis opening to 120° with closure by 3 mm double bar insert.	
Material		Galvanized steel		Steel	
Finish		-		Textured epoxy-polyester powder paint	
Colour		-		RAL 7035 grey	
Thickness		20/10e mm		-	
Maximum load		3 kg per unit		3 kg per unit	
Enclosure (mm)		**Unit number**	**References**	**Unit number**	**References**
Height	**Width**				
400	600	8	**NSYVDM8UF**	7	**NSYVDM7UP**
600	600	12	**NSYVDM12UF**	11	**NSYVDM11UP**
800	600	17	**NSYVDM17UF**	16	**NSYVDM16UP**
1000	600	21	**NSYVDM21UF**	20	**NSYVDM20UP**
	800	-	-	20	**NSYVDM20U8P**
1200	800	-	-	25	**NSYVDM25U8P**

Fixings for 19" rack



■ They allow 19" accessories to be mounted.
■ Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.

Name	Batch of	References
M6 screws + washers + nuts	30	**NSYGFR95M63**
M6 x 16 screws and washers	50	**NSYGFR166P**
M6 caged nuts	100	**NSYCN9M625**
M6 screws + washers + nuts	50	**NSYGFR95M65**
M5 screws + washers + nuts	50	**NSYGFR95M55**

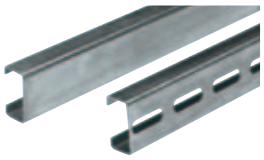
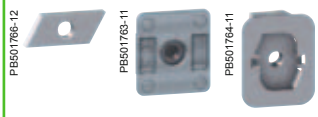
Mounting
Nuts and screws overview







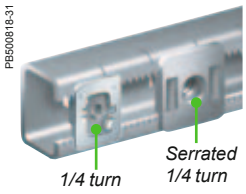


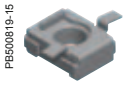
Characteristics	Clip-on nuts		Combiplas slide nut					Screws with captive washer Hexagonal head		
Usage	For Telequick mounting plates		C - shaped rail - 20/40/60 mm					All nuts		
										
Type	**Supply**	**References**	**Rail type**	**Combiplas nut**		**Metal sliding nut**		**Models**	**Supply**	**References**
				Supply	**References**	**Supply**	**References**			
M3	100	**AF1EA3**	-	-	-	-	-	-	-	-
M4	100	**AF1EA4**	C20	100	**NSYBN204**	100	**NSYB204**	M4 x 10 mm	100	**AF1VA410**
			C40	100	**NSYBN404**	100	**NSYB404**	M4 x 16 mm	100	**AF1VA416**
M5	100	**AF1EA5**	-	-	-	-	-	M5 x 12 mm	100	**AF1VA512**
								M5 x 18 mm	100	**AF1VA518**
M6	100	**AF1EA6**	C20	100	**NSYBN206**	-	-	M6 x 12 mm	100	**AF1VA612**
			C40	100	**NSYBN406**	-	-	M6 x 18 mm	100	**AF1VA618**
			C60	100	**NSYBN606**	100	**NSYB406**			
M8	-	-	C40	100	**NSYBN408**	-	-	M8 x 20 mm	100	**AF1VC820**
			C60	100	**NSYBN608**					
M10	-	-	C60	100	**NSYBN610**	-	-	-	-	-

References by unit. Order by multiples of the units specified in the supply.

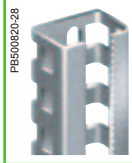


Fixing brackets





Removable nut

Characteristics	Fixings and nuts for serrated uprights								
Usage	2 x serrated mounting uprights for floor-standing enclosures								
									
Type	**Fixing brackets**			**1/4 turn**	**Serrated 1/4 turn**	**Removable nut**		**Cage nut**	
	Supply	**Ref.**	**Supply**	**Ref.**	**Ref.**	**Supply**	**Ref.**	**Supply**	**Ref.**
M4	4	**NSYMFB**	-	-	-	-	-	-	-
M5			-	-	-	-	-	-	-
M6			10	**NSYSNM6**	**NSYSNSM6**	50	**NSYCNM6**	50	**NSYCNFM6**
M8			10	**NSYSNM8**	**NSYSNSM8**	50	**NSYCNM8**	50	**NSYCNFM8**
-			-	-	-	-	-	-	-

References by unit. Order by multiples of the units specified in the supply.

Mounting
Nuts and screws overview


PB500856-19

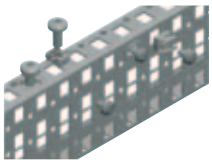

PB501855-10


PB501766-17


PB501859-10

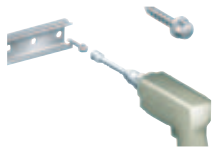
Torx screws

Nuts and 6 mm Spacial enclosures holes


PB500842-29

Models	Supply	References
-	-	-
-	-	-
-	-	-
T30 M6 x 16 mm	100	**NSYST30M6**
T30 M6 x 12 mm self-tapping	100	**NSYST30M6S**
T40 M8 x 16 mm	100	**NSYST40M8**
-	-	-

Self-tapping screw


PB500108-28

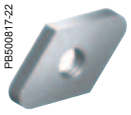
Models	Supply	References
-	-	-
-	-	-
M5 x 13 mm	100	**NSYS13M5HS**
M5 x 16 mm	100	**NSYS16M5HS**
M6 x 16 mm	100	**NSYS16M6HS**
-	-	-
-	-	-
-	-	-

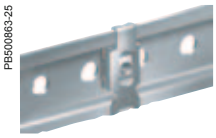
Fixings and nuts for aluminium uprights

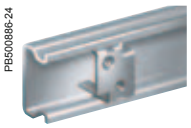
Mounting uprights for wall-mounting enclosures

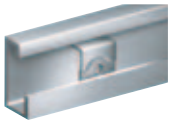

PB500105-29

Sliding nuts		Brass nuts to fix the upright to the enclosures	
Supply	References	Supply	Reference
-	-	4	**NSYAMCSF**
100	**NSYNM4**		
100	**NSYNM5**		
100	**NSYNM6**		
-	-		
-	-		


PB500817-22


PB500863-25


PB500886-24


PB500866-24

Flat nuts for standard uprights

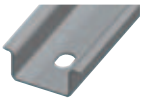
2 x standard mounting uprights for floor-standing enclosures


PB500482-26

Supply	Ref.
-	-
-	-
50	**NSYFNM6**
50	**NSYFNM8**
-	-

Clip nut for symmetric DIN rail

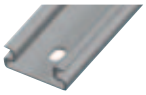
35 x 15 mm symmetric DIN rail


PB500222-45

Supply	Ref.
100	**AF1CG4**
100	**AF1CG5**
100	**AF1CG6**
-	-
-	-

Quarter turn nut for double profile DIN rail

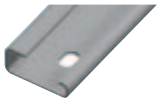
35 mm double profile DIN rail


PB500868-59

Models	Supply	Ref.
-	-	-
-	-	-
-	-	-
-	-	-
M3 + M4	100	**AF1CF34**
M5 + M6	100	**AF1CF56**

Quarter turn nut for asymmetric DIN rail

35 mm asymmetric DIN rail


PB500865-54

Supply	Ref.
100	**DZ5ME8**
100	**DZ5ME9**
100	**DZ5ME5**
-	-
-	-

Power distribution
Modular distribution
for wall-mounting enclosures

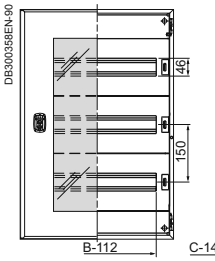
S3D S3X



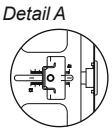




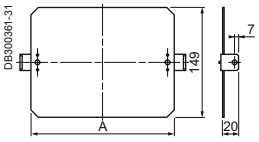
Characteristics			DLM modular chassis	Plain front panel	Plain mounting plate
			■ The chassis consists of metal cut-out front panels, which can be clipped on without screws. ■ The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.	Metal front panels to be clipped on without screws.	Mounting plate for fixing non-modular devices.
Material			Rigid galvanised-steel structure	-	Galvanised steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, 100% polyester powder	-
Colour			RAL 7035 grey	RAL 7035 grey	-
Thickness			-	-	20/10e mm
Supply			-	2 plain front panel and fixings	2 plain chassis and fixings
Height (mm)	**Width (mm)**	**Number of modules***	**References**		
400	300	24	**NSYDLM24**	**NSYCTL300DLM**	**NSYPMP300DLM**
500	400	48	**NSYDLM48**	**NSYCTL400DLM**	**NSYPMP400DLM**
600	400	48	**NSYDLM48P**	**NSYCTL400DLM**	**NSYPMP400DLM**
	600	84	**NSYDLM84P**	**NSYCTL600DLM**	**NSYPMP600DLM**
700	500	66	**NSYDLM66**	**NSYCTL500DLM**	**NSYPMP500DLM**
	500	88	**NSYDLM88**	**NSYCTL500DLM**	**NSYPMP500DLM**
800	600	84	**NSYDLM84**	**NSYCTL600DLM**	**NSYPMP600DLM**
	600	112	**NSYDLM112**	**NSYCTL600DLM**	**NSYPMP600DLM**
1000	600	168	**NSYDLM168**	**NSYCTL600DLM**	**NSYPMP600DLM**
	800	234	**NSYDLM240**	**NSYCTL800DLM**	**NSYPMP800DLM**



Front-panel cut-out

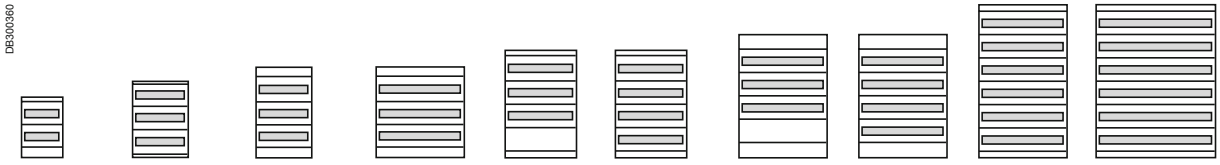


Rail adjustment: 45 mm



** 1 module = 2 steps = 18 mm.*

Number of modules per chassis in steps of 18 mm



Chassis reference	NSYDLM24	NSYDLM48	NSYDLM48P	NSYDLM84P	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n. of modules	24	48	48	84	66	88	84	112	168	234

** For references **NSYDLM48**, **NSYDLM48P** and **NSYDLM84** on Spacial wall-mounting enclosures the central row can only receive modules at the height of the lock when installed at the front of the enclosure. In this case, 1 module is sealed up (check our technical instructions).*

Power distribution
Modular distribution for wall-mounting enclosures

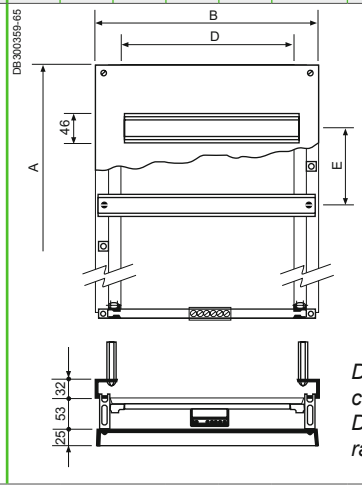
S3D* S3X

** For Spacial S3D please consult us.*



Characteristics	DL modular chassis
	■ Dinimel chassis designed for devices with heights of 53 and 68 mm, which can be coupled directly to the enclosure plate-support bolts. ■ Distance between device rail and protective cover plate: 45 mm.
Material	Sheet steel
Finish	Metal protective cover plate
Colour	RAL 7035 grey

For coupling to the enclosures with normal or transparent door			Dimensions (mm)						No. of 18-mm modules	No. of rows	Approx. weight (kg)	References
Height	Width	Depth	A	B	D	E	F***	G				
300	250	150**	255	205	162	120	41	51	18	2	1.2	**NSYDLCR18**
400	300	150**	355	255	216	160	41	51	24	2	1.7	**NSYDLCR24**
	300	150**	355	255	216	110	41	51	36	3	1.7	**NSYDLCR36**
500	400	150**	455	355	288	130	41	51	48	3	2.4	**NSYDLCR48**
600	400	150/200	555	355	288	130	41	51/101	64	4	3.3	**NSYDLCR64**
	500	150/200	555	455	396	130	41	51/101	88	4	4.5	**NSYDLCR88**
700	500	200	655	455	396	125	41	101	110	5	5.1	**NSYDLCR110**
800	600	200	755	555	486	140	41	101	135	5	7.5	**NSYDLCR135**



Dimension F: Distance from the protective cover plate to the inside of the door.
Dimension G: Distance from the device-support rail to the rear of the enclosure.

*** For coupling to enclosures with a depth of 200 mm, the stand-offs (ref. **NSYEX608**) are to be ordered separately (4 per chassis).*
**** For enclosures with transparent door, the F dimension is reduced by 4 mm.*



Characteristics	Blanking plate		
	Blanking plate for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.		
Material	Fire-proof insulating		
Length (mm)	**No. of modules**	**RAL**	**References**
72	4	7032	**NSYATP72G**
72	4	7035	**NSYATP72M**
108	6	7035	**NSYATP6DTM**
432	24	7035	**NSYATP24DTM**
1100	-	7035	**NSYATPUND**

Power distribution
Modular distribution
for floor-standing enclosures

SM SF


PB500524-36

Modular distribution system

■ The modular distribution system is made up of a range of accessories prepared for forming electric panels with high distribution capacity.
■ The accessories are installed on a chassis mounted at the front of the enclosure, such as for example:
□ cover plates for enclosures with widths of 600 and 800, solid or cut-out in screwed-on or hinged versions. They cover 24 or 36 modules per row, depending on the width of the enclosure,
□ material support rails, fixed or with adjustable depth,
□ chassis supports for coupling non-modular equipment,
□ supports for fixing cable-distribution cable ducts.
■ Sets of accessories made up of material-supporting frames with chassis and cover plates are offered for the construction of double or busbar modular chassis. All the accessories of the individual chassis system can also be combined in the same way with the double chassis or with the chassis with busbar area.


PB500892-40

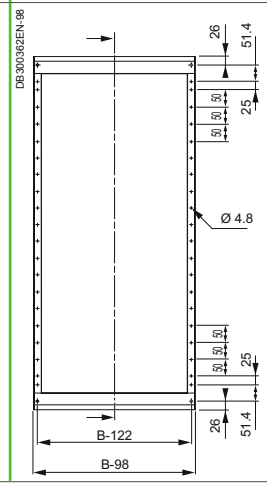
Modular distribution accessories

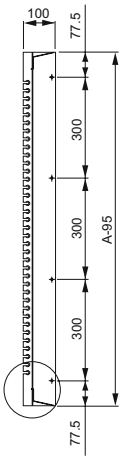
■ Schneider Electric has developed a broad range of accessories for the construction of modular distribution frames, meeting the needs of the market.
■ The new range has a coupling chassis, installed at the front of the enclosure, allowing the installation of:
□ cover plates with lengths of 600 and 800 mm, plain and cut-out, screwed on and hinged, with heights of 150, 200, 300, 400, 450 and 600 mm,
□ material support rails, fixed or with adjustable depth,
□ mounting plate supports, plain or perforated, for installation of non-modular devices.

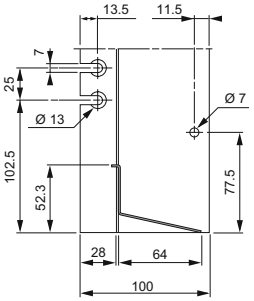
Power distribution
Modular distribution for floor-standing enclosures



Characteristics		Single-chassis coupling set	
		■ Chassis made up of vertical uprights and horizontal crossbars: □ **Spacial SF:** they are screwed to the front frame of the enclosure. □ **Spacial SM:** they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 234. ■ Easy access to the inside for component installation.	
Material		Steel	
Finish		Painted with epoxy-polyester resin, textured	
Colour		RAL 7035 grey	
Supply		2 vertical uprights, 2 horizontal crossbars and fixing elements	
Height (A)	**Width (B)**	**Maximum no. of 18-mm modules**	**References**
1200	600	144	**NSYCSH126**
	800	216	**NSYCSH128**
1400	600	192	**NSYCSH146**
	800	288	**NSYCSH148**
1600	600	216	**NSYCSH166**
	800	324	**NSYCSH168**
1800	600	240	**NSYCSH186**
	800	360	**NSYCSH188**
2000	600	288	**NSYCSH206**
	800	432	**NSYCSH208**



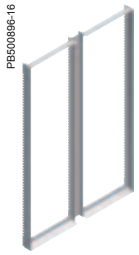




** Installation example: see page 251.*

Power distribution
Modular distribution for floor-standing enclosures

SM SF





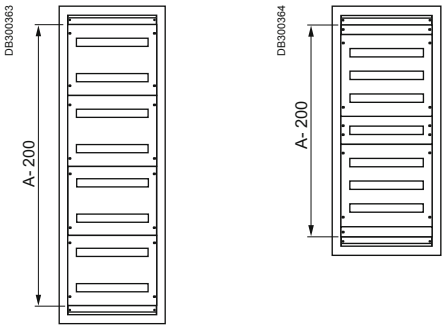
Characteristics	Double-chassis coupling set*	Chassis-coupling set with zone for busbars*
	■ Mounting on enclosures with widths of 1200 and 1600 mm. ■ Installation on **Spacial SM**: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 234. ■ Set made up of two modular chassis with an intermediate central upright. ■ **Spacial SM:** for enclosures with a width of 1200 mm the top/bottom adjustment rails are necessary. ■ **Spacial SF:** the double-door enclosure adaptation kit is required for enclosure widths of 1200 and 1600 mm, see page 225.	■ Set for mounting on enclosures with widths of 1000 and 1200 mm. ■ **Spacial SF:** they are screwed to the front frame enclosure. ■ **Spacial SM:** they are screwed to the front frame of the enclosure by means of the vertical and horizontal adaptation profiles, see page 234. ■ Assembly made up of a modular chassis with an intermediate central upright and a blanking cover plate for busbars (width 300 mm).
Material	Steel	Steel
Finish	Painted with epoxy-polyester resin, textured	Painted with epoxy-polyester resin, textured
Colour	RAL 7035 grey	RAL 7035 grey
Supply	2 single-chassis coupling sets, 1 intermediate central upright and fixing elements	1 single-chassis coupling set, 1 intermediate central upright, 1 busbar blanking cover plate, fixing elements

Height (A)	Width (B)	Maximum no. of 18-mm modules	Set made up of columns with a width (mm)	References	Maximum no. of 18-mm modules	Set made up of columns with a width (mm)	References
1400	1000	-	-	-	192	600 + 400	**NSYCSHB1410**
	1200	384	600 + 600	**NSYDCSH1412**	288	800 + 400	**NSYCSHB1412**
1600	1000	-	-	-	216	600 + 400	**NSYCSHB1610**
	1200	432	600 + 600	**NSYDCSH1612**	324	800 + 400	**NSYCSHB1612**
1800	1000	-	-	-	240	600 + 400	**NSYCSHB1810**
	1200	480	600 + 600	**NSYDCSH1812**	360	800 + 400	**NSYCSHB1812**
	1600	720	800 + 800	**NSYDCSH1816**	-	-	-
2000	1000	-	-	-	288	600 + 400	**NSYCSHB2010**
	1200	576	600 + 600	**NSYDCSH2012**	432	800 + 400	**NSYCSHB2012**
	1600	864	800 + 800	**NSYDCSH2016**	-	-	-

** Installation example: see page 251.*

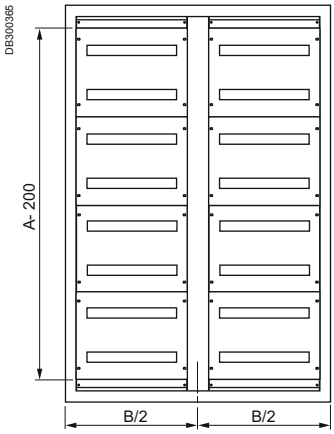
Power distribution
Modular distribution for floor-standing enclosures

Installation examples



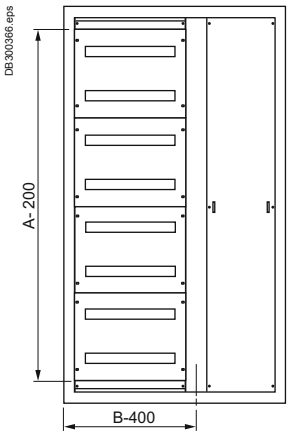
Combination of cut-out, screwed-on cover plates and single-chassis coupling set

Dimensions (mm)		No. of 18-mm modules	References		
H (A)	W (B)		1 single-chassis coupling set	5 screwed-on cut-out cover plates	2 adjustment cover plates
1800	600	240	1 x **NSYCSH186**	5 x **NSYMUC306**	1 x **NSYADC16**



Combination of cut-out, screwed-on cover plates and double-chassis coupling set

Dimensions (mm)			No. of 18-mm modules	References		
H (A)	W (B)	D (C)		1 double-chassis coupling set	12 screwed-on cut-out 300-mm cover plates	Double-door enclosure adaptation kit
2000	1200	500	576	1 x **NSYDCSH2012**	12 x **NSYMUC306**	**NSYSMP2D5**
	1600	500	864	1 x **NSYDCSH2016**	12 x **NSYMUC308**	-

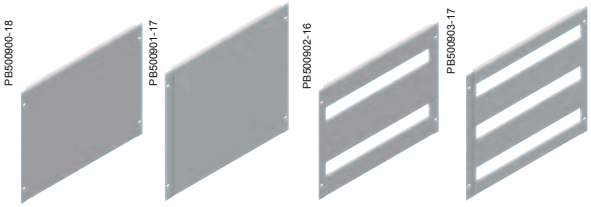


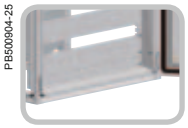
Combination of cut-out, screwed-on cover plates and chassis-coupling set with busbar zone

Dimensions (mm)		No. of 18-mm modules	References		
H (A)	W (B)		1 chassis-coupling set with zone for busbars	5 screwed-on cut-out 300-mm cover plates	2 adjustment cover plates
1800	1000	240	1 x **NSYCSHB1810**	5 x **NSYMUC306**	1 x **NSYADC16**
	1200	360	1 x **NSYCSHB1812**	5 x **NSYMUC308**	1 x **NSYADC18**

Power distribution
Modular distribution accessories

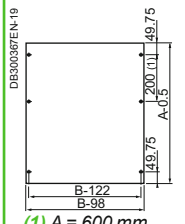
Cover plates



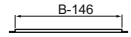


Characteristics	Plain cover plates	Cut-out cover plates	Adjustment cover plates
	■ Metal cover plates for protecting control devices. ■ The cut-outs in non-modular control devices is at user's request. ■ Suitable by modules of 150 or 200 mm. ■ Versions: □ screwed-on plain cover plate, □ hinged plain cover plate. 120° opening with flat hinge.	■ Cut-out metal cover plates for modular switchgear (1 module = 18 mm). ■ Suitable by modules of 150 or 200 mm. □ cover plates for 600-mm enclosures: 24 modules per row, □ cover plates for 800-mm enclosures: 36 modules per row. ■ Versions: □ screwed-on cut-out cover plate, □ hinged cut-out cover plate. 120° opening with flat hinge.	Metal adjustment cover plates designed to complete the front of the modular chassis according to the combinations made by modules of 150 or 200 mm.
Material	Steel	Steel	Steel
Finish	Painted with epoxy-polyester resin, textured	Painted with epoxy-polyester resin, textured	Painted with epoxy-polyester resin, textured
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
Fixing	-	-	-
Supply	1 plain cover plate and fixing elements	1 cut-out cover plate and fixing elements	2 adjustment cover plates and fixing elements

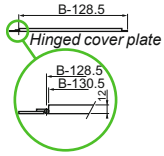
Height (A)	Width (B)	Screwed-on plain cover plate references	Hinged plain cover plate references	D	E	F	No. of cut-outs	Max. no. of 18-mm modules	Screwed-on cut-out cover plate references	Hinged cut-out cover plate references	References
50	600	-	-	-	-	-	-	-	-	-	**NSYADC16**
	800	-	-	-	-	-	-	-	-	-	**NSYADC18**
150	600	**NSYMPC156**	**NSYMPCH156**	432	-	-	1	24	**NSYMUC156**	**NSYMUCH156**	-
	800	**NSYMPC158**	**NSYMPCH158**	642			1	36	**NSYMUC158**	**NSYMUCH158**	-
200	600	**NSYMPC206**	**NSYMPCH206**	432	-	-	1	24	**NSYMUC206**	**NSYMUCH206**	-
	800	**NSYMPC208**	**NSYMPCH208**	642			1	36	**NSYMUC208**	**NSYMUCH208**	-
300	600	**NSYMPC306**	**NSYMPCH306**	432	51.75	150	2	48	**NSYMUC306**	**NSYMUCH306**	-
	800	**NSYMPC308**	**NSYMPCH308**	642			2	72	**NSYMUC308**	**NSYMUCH308**	-
400	600	**NSYMPC406**	**NSYMPCH406**	432	76.75	200	2	48	**NSYMUC406**	**NSYMUCH406**	-
	800	**NSYMPC408**	**NSYMPCH408**	642			2	72	**NSYMUC408**	**NSYMUCH408**	-
450	600	**NSYMPC456**	**NSYMPCH456**	432	51.75	150	3	72	**NSYMUC456**	**NSYMUCH456**	-
	800	**NSYMPC458**	**NSYMPCH458**	642			3	108	**NSYMUC458**	**NSYMUCH458**	-
600	600	**NSYMPC606**	**NSYMPCH606**	432	76.75	200	3	72	**NSYMUC606**	**NSYMUCH606**	-
	800	**NSYMPC608**	**NSYMPCH608**	642			3	108	**NSYMUC608**	**NSYMUCH608**	-



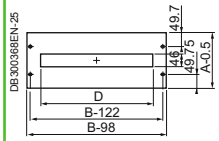
(1) A = 600 mm



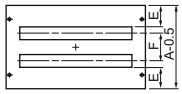
Screwed-on cover plate



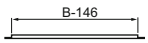
Hinged cover plate



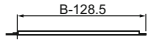
A = 150 and 200 mm



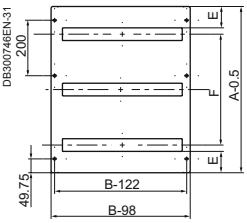
A = 300 and 400 mm



Screwed-on cover plate



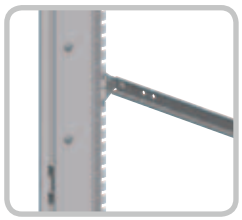
Hinged cover plate



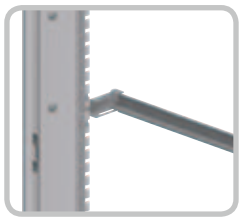
Cut-out at 200 mm when A = 600

Power distribution
Modular distribution accessories

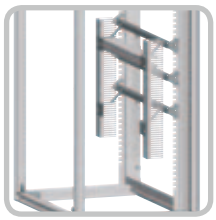
PB500907-29



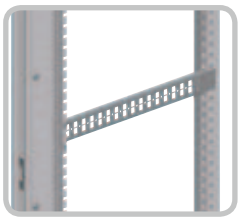
PB500909-31



PB500914-26



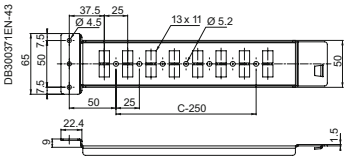
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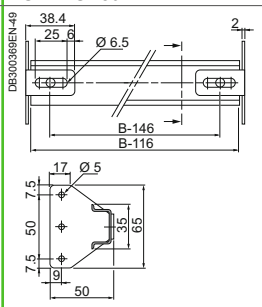
	Set of fixed rail with supports	Set of depth-adjustable rail with supports	Cable duct fixing supports	Reinforced plate supports
	■ Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and fixed mounting supports, for the installation of modular devices or not. ■ Maximum number of 18-mm modules: □ enclosure width 600 mm: 24 modules, □ enclosure width 800 mm: 36 modules.	■ Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and depthadjustable mounting supports, for the installation of modular devices or not. ■ Maximum number of 18-mm modules: □ enclosure width 600 mm: 24 modules, □ enclosure width 800 mm: 36 modules.	■ Supports for fixing cable-distribution gutters in the modular distribution chassis. ■ Allows the fixing of gutters in horizontal and vertical position on the same plane to facilitate cable distribution.	Supports for fixing the partial mounting plate for small non-modular equipment or material-supporting cross rails for heavy equipment. See partial mounting plate, page 218.
	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
	-	-	-	-
	-	-	-	-
	Mounting by screws directly on the uprights of the chassis-coupling set	Mounting by screws directly on the uprights of the modular chassis-coupling set	Installation by screws directly on the rail supplied with the fixed or adjustable rail	Direct fixing by screws to the vertical uprights of the modular chassis-coupling set, and at the rear directly to the structure (Spacial SF) and on universal or quickfixing cross rails (see page 230) installed vertically in the back of the enclosure (Spacial SM)
	1 DIN rail, 2 fixed supports and fixing elements	1 DIN rail, 2 adjustable supports and fixing elements	6 supports (3 on the right and 3 on the left) and fixing elements	2 supports and fixing elements
	References	**References**	**References**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	
	NSYMFSC60	**NSYMFSC60D**	**NSYMCDFIX**	
	NSYMFSC80	**NSYMFSC80D**	**NSYMCDFIX**	

Depth (C)	No. of cut-outs (Ø 5.2 mm)	References
300	3	**NSYMPS30**
400	7	**NSYMPS40**
500	11	**NSYMPS50**
600	15	**NSYMPS60**
800	23	**NSYMPS80**

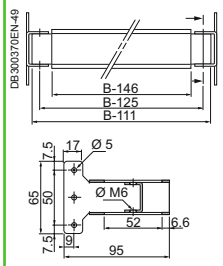
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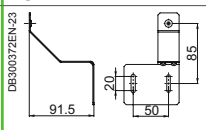
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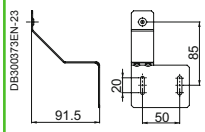
DB300370EN-49



DB300372EN-23



DB300373EN-23



Fixed supports with no rail

PB500908-13



Supply: 2 fixed supports and fixing elements.

Reference
NSYMFS1

Adjustable supports with no rail

PB500910-13

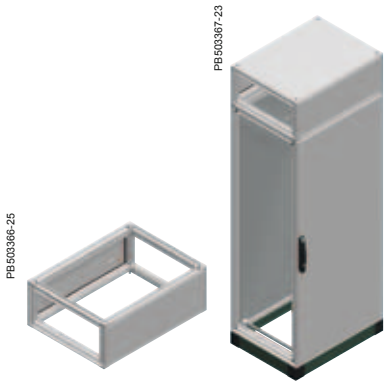


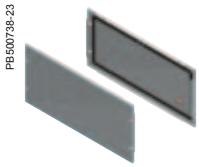
Supply: 2 adjustable supports and fixing elements.

Reference
NSYMFS1D

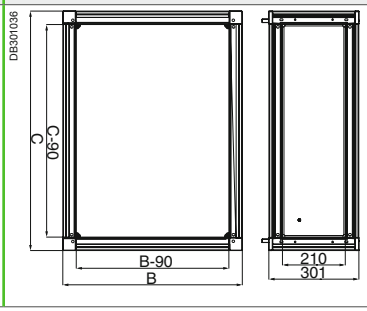
Power distribution
Power distribution accessories

SF





Characteristics			Top busbar chamber	Side panels for the busbar chamber
			Chamber which protects and supports the sets of horizontal bars. Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment. It is only installed at the top of the enclosure.	Set of two side panels for coupling with the busbar chamber. Captive screws.
Material			Steel	Steel
Finish			Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
Colour			Textured RAL 7035 grey	Textured RAL 7035 grey
Ingress protection rating			IP55	-
Supply			■ One structure of the busbar chamber as a kit ■ Two front panels ■ Reinforced coupling kit ■ One sealing gasket	Two side panels and fixing elements
Height (A) (mm)	**Width (B) (mm)**	**Depth (C) (mm)**	**References**	
300	300	500	-	**NSYSPBC35**
		600	**NSYTBC336**	**NSYSPBC36**
		800	**NSYTBC338**	**NSYSPBC38**
	400	500	**NSYTBC345**	**NSYSPBC35**
		600	**NSYTBC346**	**NSYSPBC36**
		800	**NSYTBC348**	**NSYSPBC38**
	600	500	**NSYTBC365**	**NSYSPBC35**
		600	**NSYTBC366**	**NSYSPBC36**
		800	**NSYTBC368**	**NSYSPBC38**
	800	500	**NSYTBC385**	**NSYSPBC35**
		600	**NSYTBC386**	**NSYSPBC36**
		800	**NSYTBC388**	**NSYSPBC38**
	1000	500	**NSYTBC3105**	**NSYSPBC35**
		600	**NSYTBC3106**	**NSYSPBC36**
		800	**NSYTBC3108**	**NSYSPBC38**
	1200	500	**NSYTBC3125**	**NSYSPBC35**
		600	**NSYTBC3126**	**NSYSPBC36**
		800	**NSYTBC3128**	**NSYSPBC38**
1800	400	400	-	-
		500	-	-
		600	-	-
2000	300	500	-	-
		600	-	-
		800	-	-
	400	400	-	-
		500	-	-
		600	-	-
		800	-	-
2200	400	600	-	-



Power distribution
Power distribution accessories

PB500739-20



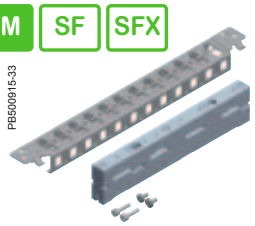
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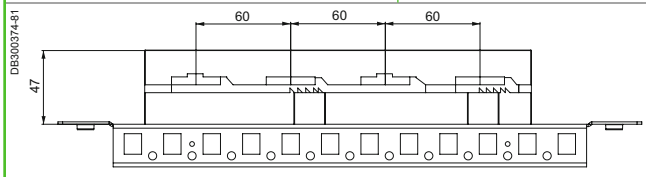
	Side busbar chamber	Side panels for the side busbar chamber
	Protects and supports the sets of vertical bars. Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment. It can be installed on either of the two sides of the enclosure.	Set of 2 side panels fixed to the outside. Captive screws.
	Steel	Steel
	Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
	Textured RAL 7035 grey	Textured RAL 7035 grey
	IP55	-
	■ One structure of the busbar chamber ■ One roof ■ One rear panel ■ One door with handle (5-mm DB lock)	Two side panels with external fixing and fixing elements
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
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	-	-
	-	-
	NSYSF18440	**NSY2SP184**
	NSYSF18450	**NSY2SP185**
	NSYSF18460	**NSY2SP186**
	NSYSF20350	**NSY2SP205**
	NSYSF20360	**NSY2SP206**
	NSYSF20380	**NSY2SP208**
	NSYSF20440	**NSY2SP204**
	NSYSF20450	**NSY2SP205**
	NSYSF20460	**NSY2SP206**
	NSYSF20480	**NSY2SP208**
	NSYSF22460	**NSY2SP226**

For 630 A busbars

SM SF SFX





Characteristics	630 A bar support		630 A busbar end cover
	■ **Spacial SF:** support prepared for coupling directly to the structure of the enclosure. ■ **Spacial SFX:** a universal cross rail is needed, in some cases, to replace the 400mm quick-fixing cross rail. ■ **Spacial SM:** installation by means of a vertical adaptation profile and 40 mm universal cross rails (1 row). ■ Maximum nominal rating 630 A. ■ Determine according to the enclosed table the cross-section of the bars and the distance between supports, according to the nominal and short-circuit current respectively.		Busbar end protection.
Material	-		-
Fixing	-		Direct installation on the actual bar support (insulator)
Supply	One 630 A bar support, one 40 mm quick-fixing cross rail and fixing elements		Two 630 A bar support plates and fixing elements
	Width / Depth (mm)	**References**	**Reference**
	400	**NSYBS400**	**NSYBSC630**
	500	**NSYBS500**	
	600	**NSYBS600**	
	800	**NSYBS800**	
			

Table

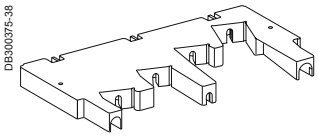


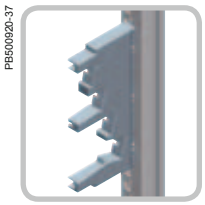


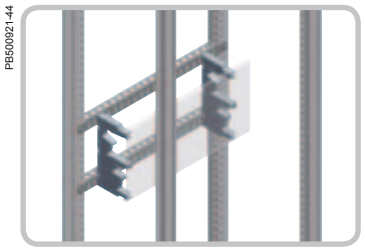


Nominal rating IP55 NR (A)	No. of barsper phase	Bar cross-section		Maximum distance between bar supports according to the short-circuit current (mm)							Neutral (mm)	Earth (mm)
		(mm)	(mm^2)	Icc kA								
				12	23	30	39	52	66	69		
200	1	12 x 5	60	525	525	525	400	250	-	-	-	-
250	1	15 x 5	75	575	575	575	450	325	-	-	-	-
320	1	20 x 5	100	600	600	600	475	350	150	-	12 x 5-10	-
390	1	25 x 5	125	600	600	600	475	350	150	-	12 x 5-10	6 x 3
440	1	30 x 5	150	650	650	650	650	525	400	350	20 x 5-10	10 x 3
500	1	20 x 10	200	675	675	675	525	350	150	-	25 x 5-10	10 x 6
600	1	30 x 10	300	675	675	675	600	475	325	275	30 x 5-10	10 x 6

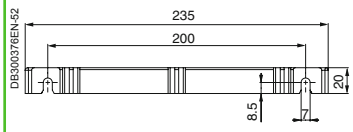
Power distribution
Busbars and blocks

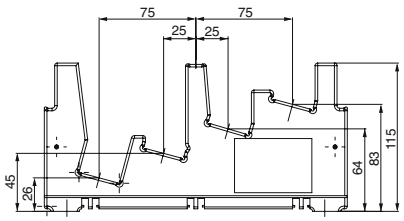






	630 A multi-stage bar support	Screen for 630 A multi-stage busbar
	■ Support for fixing bars with cross-sections: 15 x 5, 20 x 5, 32 x 5, 32 x 8. ■ The orientation of the copper bars makes tightening easier and allows better circulation of the cables. ■ It can be 3-pole or 4-pole, with gauges from 160 to 630 A. ■ Electrical characteristics: □ Rated peak withstand current Ipk (kÂ): - 30 kÂ for 160 A busbar, - 40 kÂ for 250 A busbar, - 55 kÂ for 400 A and 630 A busbar. □ Rated insulation voltage Ui = 750 V.	■ Protects against direct contact from the front in the connections of the busbar. ■ Length: 1500 mm.
	Insulating plastic	-
	■ Mounting on mounting plates (see page 218) or cross-rails (see page 230) ■ M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included	Direct mounting on the actual support
	1 multi-stage bar support and fixing elements	1 screen for multi-stage busbar and fixing elements
	Reference	**Reference**
	04192	**04197**





Table

The following table shows:
■ The cross-section of the bars that will be used according to the current-carrying capacity in the busbar.
■ The distance between the bar supports that will be installed according to the rated short-time withstand current: Icw.

Rating (A)	Bar cross-section (mm)	Centre-to-centre distance of the supports (mm)				
		Icw (kA rms/1 s)				
		10	13	15	20	25
160	15 x 5	450			300	300 (1)
250	20 x 5					
400	32 x 5					
630	32 x 8					

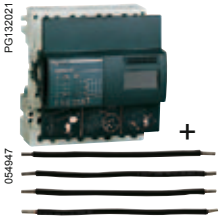
(1) Icw (kA rms/0.6 s).

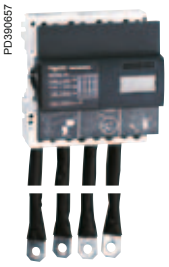
Linergy DX

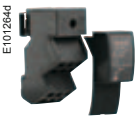
Fast connection distribution blocks











Characteristics		Linergy DX				
Rating		**63 A**		**125 A**	**160 A**	**160 A**
		■ Incoming through the top. ■ Clip-on to rail.	■ Incoming through the bottom. ■ Clip-on to rail.	■ Set of 4 35 mm² flexible connections, length 210 mm to be ordered separately (cat. no. **04047**). ■ Clip-on to rail.	■ Set of 4 prefabricated flexible connections supplied, for connection with an INS100/160 or NSA160 switch, installed on the right or left. ■ Clip-on to rail	Clip-on to rail.
Number of poles		4P		4P	4P	1P
Total connection capacity (dia. for flexible cables)	4 mm²	-		7		-
	6 mm²	12 per phase + 12 neutral		3		6
	10 mm²	-		2		-
	16 mm²	-		1 tunnel terminal		6
	25 mm²	4 tunnel terminals per phase + 1 neutral		-		-
	35 mm²	-		1 tunnel terminal		-
	70 mm²	-		-		1 tunnel terminal
Size	in 9 mm modules	8		12		4.5
	in 18 mm modules	4		6		2.5
References						
		04040	**04041**	**04045 + 04047**	**04046**	**04031**

Linergy DS and Linergy BS

Screw connection distribution blocks





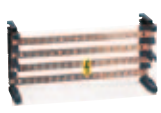












Characteristics		Linergy DS							Linergy BS		
Rating		**125 A**	**160 A**	**250 A**	**100 A**	**125 A**		**160 A**	**160 A**	**250 A**	**400 A**
		Clip-on to rail.			Clip-on to rail.				■ To be screwed on back. ■ 13 M6 tapped holes + 4 plain holes of dia. 12.2 mm.		
Number of poles		2P			4P				4P		
Total connection capacity		10	13	14	4 x 7	4 x 12	4 x 15	4 x 12	4 + 13 (dia. for flexible cables: 50 mm²)		
Size	in 9 mm modules	3	4	5	8	14	20	18	-	-	-
	in 18 mm modules	-	-	-	-	-	-	-	-	-	-
References											
		LGY112510	**LGY116013**	**LGY125014**	**LGY410028**	**LGY412548**	**LGY412560**	**LGY416048**	**04052**	**04053**	**04054**
Neutral terminal strip (optional)		-	-	-	LGYN1007	LGYN12512	LGYN12515	LGYN12512	-	-	-

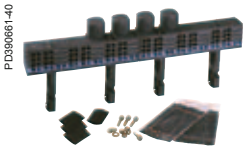
Power distribution
Busbars and blocks

Linergy FM

Insulated busbars - spring connection





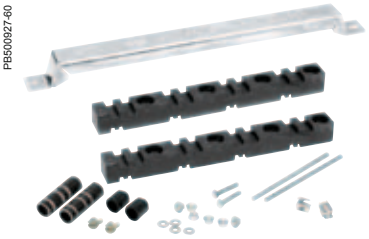


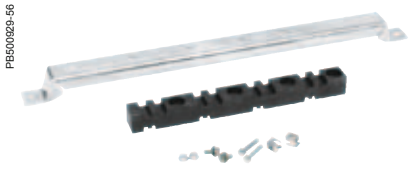
Characteristics			Linergy FM: for cable links				
Rating			**63 A**	**80 A**	**160 A**	**200 A**	
Length	in 9 mm modules		24	96	48	48	72
	in 18 mm modules		12	48	24	24	36
Upstream connection capacity			Tunnel terminals for cables up to 25 mm²	Tunnel terminals for cables up to 25 mm²	Direct on connecting pads by 50 mm² cables or by 20 x 3 flexible bar with a prefabricated connection from a busbar		
Downstream connection capacity	Max. 4 mm²	Phase	2	-	-	-	
		Neutral	4	-	-	-	
	Max. 6 mm²	Phase	2	-	-	-	
		Neutral	4	-	-	-	
	Max. 10 mm²	Phase	-	18	6	12	18
		Neutral	-	18	6	18	27
Accessories included	Pre-stripped copper connections		10 of 4 mm² + 6 of 6 mm² (L=100 mm)	12 blue + 12 black	20 of 4 mm² + 6 of 6 mm² (L=100 mm)		
	Protective cover		-	-	For pads (IPxxB)		
	Screws and nuts		-	-	For pads		
References							
2P			-	-	-	**04012**	-
3P			-	-	-	**04013**	-
4P			**04008**	**04000**	**04018**	**04014**	**04026**
Accessories							
Type			**Manufactured cable links for upstream liaison**				
References / type of liaison			-	-	4 x 160 A cable links **04030** - Between Linergy FM and switchgear	4 x 200 A cable links **04021** - Between Linergy FM and Powerclip busbar **04029** - Between Linergy FM and back busbar **04024** - Between Linergy FM and busbar in duck	

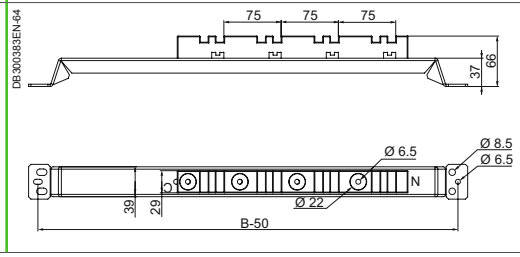
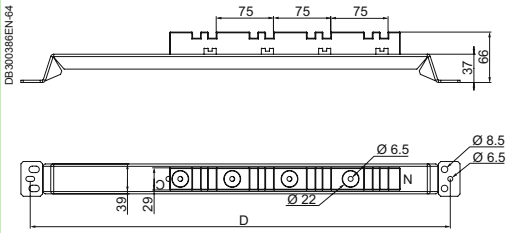
Power distribution
Busbar support accessories

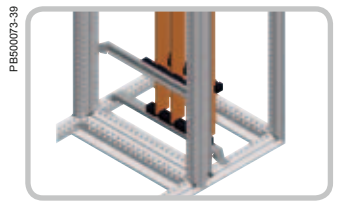
SF

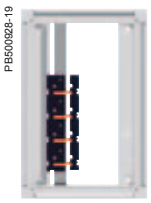
Vertical

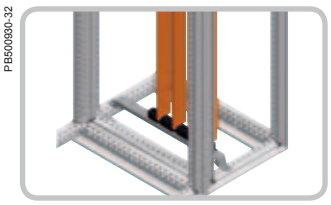




Characteristics	Vertical bar support up to 3200 A	Setting support
	■ Support prepared for fixing bars in vertical position, mounted directly on the structure of the enclosure. Adjustable height with a pitch of 25 mm. ■ Maximum nominal rating: □ 1600 A for 5 mm bars. □ 3200 A for 10 mm bars. ■ The number and the distance between supports, according to the nominal current and the short-circuit current, are stated in the enclosed table page 261.	■ Bottom support for bars in vertical position. ■ It is fixed to the bottom frame of the enclosure. ■ It is required for supporting the bars. ■ It is not considered a bar support when calculating the number of supports.
Supply	2 insulating bar supports, 1 metal vertical support and fixing elements	1 insulating bar support, 1 metal vertical support and fixing elements
Width / Depth (B) (mm)	**References**	
400	**NSYBVS400**	**NSYAS400**
500	**NSYBVS500**	**NSYAS500**
600	**NSYBVS600**	**NSYAS600**
800	**NSYBVS800**	**NSYAS800**
		





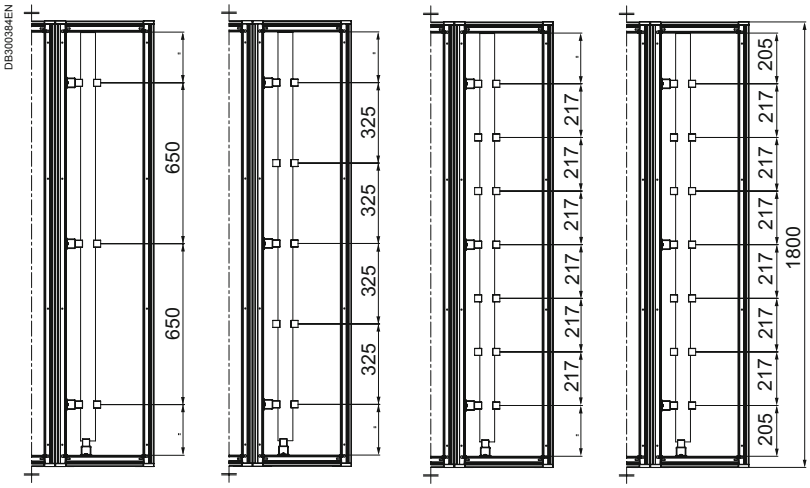


Power distribution
Busbar support accessories

Selection of the number of supports

■ The number and cross-section of the bars are chosen for each phase, according to the nominal rating.
■ Determine the short-circuit current Icw (kA) and use the table to obtain the maximum distance between supports.
■ Based on the maximum distance between supports, obtain the number of supports to be installed according to the following criterion:
□ three vertical supports must necessarily be fixed to the structure (ref. **NSYBVS**...),
□ if more than three supports are required, the support arms must be used (ref. **NSYBSA**), in even numbers (2, 4, etc.).

Example
■ In: 2000 A, two 60 x 10 bars are required per phase.
■ Icw: 50 kA.
■ According to the table of maximum distance between supports they must be 325 mm.
■ Length of the copper bars: 1800 mm.
■ 1700/325 = 5.23, which means 6 supports, 3 fixed vertical supports and 3 support arms + 1 extra support for the number to be even.



Table

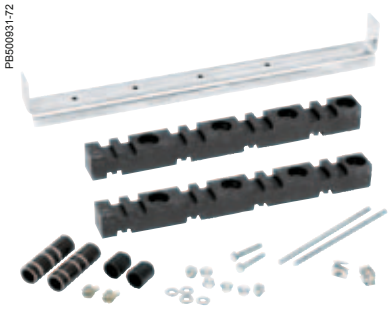
Sets of vertical bars			Maximum distance between bar supports (mm) according to the short-circuit current, Icw (kA)								
Nominal rating In (A)	Cross-section (mm)	No. of bars per phase	Icw (kA) 15	25	30	40	50	60	65	75	85
750	60 x 5	1	650	325	325	217	-	-	-	-	-
900	80 x 5	1	650	325	325	217	-	-	-	-	-
1250	60 x 5	2	650	325	325	217	163	-	-	-	-
1600	80 x 5	2	650	325	325	217	217	-	-	-	-
1080	50 x 10	1	650	650	650	325	217	217	-	-	-
1250	60 x 10	1	650	650	650	325	325	217	-	-	-
1600	80 x 10	1	650	650	650	325	325	217	-	-	-
1850	50 x 10	2	650	650	325	325	325	217	217	217	-
2000	60 x 10	2	650	650	650	325	325	325	217	217	-
2500	80 x 10	2	650	650	650	325	325	325	325	217	-
2800	100 x 10	2	650	650	650	650	325	325	325	217	163

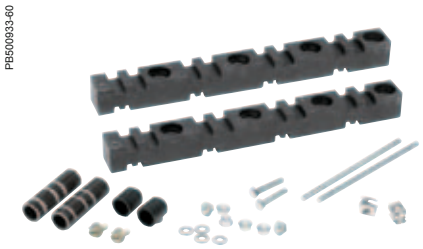
Note: The current-carrying capacity values in the set of bars are given for an ambient temperature of 35°C around the busbar. The nominal rating values are indicated for IP55. The maximum values (3200 A) are achieved with ambient temperatures of less than 35°C, varying according to the configuration and position of the busbar. See enclosed table of current-carrying capacities according to temperature, page 263.

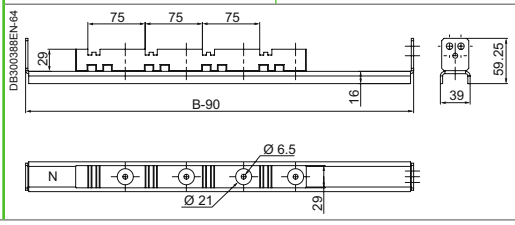
Power distribution
Busbar support accessories

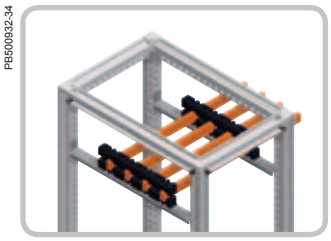
SF SFX

Horizontal





Characteristics	Horizontal bar support up to 3200 A		Bar support arm
	■ Support prepared for fixing bars in horizontal position. ■ Direct mounting to the structure of the enclosure, on the vertical uprights, at any height, adjustable with a pitch of 25 mm. ■ Maximum nominal rating: □ 1600 A for 5 mm bars, □ 3200 A for 10 mm bars. ■ The number and the distance between supports, according to the nominal and short-circuit current, are stated in the enclosed table page 263.		■ Support without fixing to the enclosure, required to guarantee the distance between the bars. ■ It is used on bars in both vertical and horizontal position. ■ To choose the number of supports, see the tables of maximum distances between supports, pages 256, 261 and 263.
Supply	2 insulating bar supports, 1 metal horizontal support and fixing elements		2 insulating bar supports and fixing elements
	Width / Depth (B) (mm)	**References**	**Reference**
	500	**NSYBHS500**	**NSYBSA**
	600	**NSYBHS600**	
	800	**NSYBHS800**	
			



Power distribution
Busbar support accessories

Table

Sets of horizontal bars			Maximum distance between bar supports (mm) according to the short-circuit current Icw (kA)								
Nominal rating In (A)	Cross-section (mm)	No. of bars per phase	15	25	30	40	50	60	65	75	85
750	60 x 5	1	650	325	325	217	-	-	-	-	-
900	80 x 5	1	650	325	325	217	-	-	-	-	-
1250	60 x 5	2	650	325	325	217	163	163	130	108	81
1600	80 x 5	2	650	325	325	217	217	163	130	108	81
1080	50 x 10	1	650	650	650	325	217	217	163	-	-
1250	60 x 10	1	650	650	650	325	325	217	163	130	108
1600	80 x 10	1	650	650	650	325	325	217	163	130	108
1850	50 x 10	2	650	650	325	325	325	217	217	217	163
2000	60 x 10	2	650	650	650	325	325	325	217	217	163
2500	80 x 10	2	650	650	650	325	325	325	325	217	163
2800	100 x 10	2	650	650	650	650	325	325	325	217	163

Note: The current-carrying capacity values in the set of bars are given for an ambient temperature of 35°C around the busbar. The nominal rating values are indicated for IP55. The maximum values (3200 A) are achieved with ambient temperatures of less than 35°C, varying according to the configuration and position of the busbar. See enclosed table of current-carrying capacities according to temperature.

Selection of the number of supports

■ The number and cross-section of the bars are chosen for each phase, according to the nominal rating.
■ Determine the short-circuit current Icw (kA) and use the table to obtain the maximum distance between supports.
■ Based on the maximum distance between supports, obtain the number of supports to be installed according to the following criterion:
□ two supports must necessarily be fixed to the structure per enclosure. In the event of enclosure suites, only one support is required, fixed to one of the uprights of the coupling,
□ if more than two supports are required per enclosure, the support arms must be used (ref. **NSYBSA**).

Table of current-carrying capacities according to temperature

Type of bars		Current-carrying capacity (A) according to the ambient temperature around the frame				
Cross-section (mm)	No. of bars per phase	25°C	30°C	35°C	40°C	45°C
60 x 5	1	840	790	750	700	650
80 x 5	1	1050	990	900	870	810
60 x 5	2	1420	1350	1250	1180	1090
80 x 5	2	1820	1720	1600	1510	1390
50 x 10	1	1220	1160	1080	1010	940
60 x 10	1	1400	1320	1250	1160	1070
80 x 10	1	1800	1700	1600	1500	1390
50 x 10	2	2090	1980	1850	1740	1610
60 x 10	2	2270	2140	2000	1870	1720
80 x 10	2	2820	2660	2500	2330	2160
100 x 10	2	3200	3100	2800	2720	2510

Note: The rating values according to temperature are not exhaustive, since they depend on the configuration and position of the bars inside the enclosure.

Power distribution
Distribution blocks



NSYBBH29 NSYBBH29D



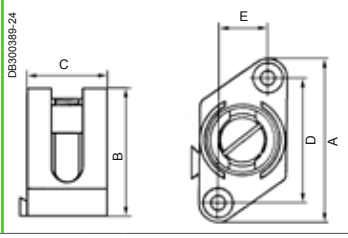
NSYBBH29P



Fig. 1 *Fig. 2*

Characteristics	Sigma safety terminals*	Bimetal terminals	Plate/cable terminals
	Safety terminals made from self-extinguishing Polyamide-6, with matt black base, MS-58 brass terminal (DIN 17660), tempered, zinc-plated and dichromated steel ring, and cover made from orange-coloured self-extinguishing polypropylene. ■ Anti-shearing: the connection is made by means of a tightening mechanism, which distributes the pressure across the entire contact surface, avoiding friction and occasional stress that can damage the conductors. ■ Unloosenable: the ring that surrounds the brass body guarantees that the pressure exerted by the actual conductors cannot open the terminal and loosen the connection. ■ Full insulation: all the SIGMA "S" terminals are supplied with a terminal-covering cap, avoiding any accidental contact with live parts. All the gauges can be coupled together, forming strips of any length. Operating voltage: 500 V.	Terminals specially designed for the junction of cables on plates, their main application is in busbar connections. The bimetal terminals are made from a copper alloy, hot-stamped and tin plated, suitable for connecting a copper or aluminium conductor indistinctly (bimetal).	Entry by plate and junction by cable, plate or terminal.
Supply	20 units (except for ref. NSYS95100: 10 units)	4 bimetal terminals	1 junction terminal

Section (mm²)	A	B	C	D	E	References
1 x 4	30	20	13	21	4	**NSYS04**
1 x 6	33	25	16	24	7	**NSYS06**
1 x 10	38	28	16	28	6	**NSYS10**
1 x 16	42	32	19	32	9	**NSYS16**
1 x 35	46	38	23	34	11	**NSYS2535**
1 x 50	52	45	27	40	15	**NSYS50**
1 x 70	55	50	30	40	15	**NSYS70**
1 x 100	58	54	33	40	20	**NSYS95100**



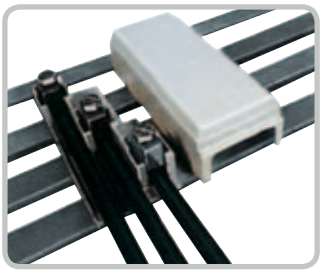
Main section (mm²)	Junction section (mm²)	References
6-50	-	**NSYBBH29**
6-50	-	**NSYBBH29C**
10-95	-	**NSYBBH30**
16-150	-	**NSYBBH31**
50-240	-	**NSYBBH32**
6-50	6-50	**NSYBBH29D**
10-95	10-95	**NSYBBH30D**
25-150	16-150	**NSYBBH31D**
95-240	5-240	**NSYBBH32D**
6-50	-	**NSYBBH29P**
6-50	6-50	**NSYBBH29DPC**

Junction cable section (mm²)	Plate thickness (mm)	Fig.	References
1.5 to 16	5	2	**NSYBPCH516**
1.5 to 50	5	2	**NSYBPCH550**
16 to 120	5	2	**NSYBPCH5120**
1.5 to 16	10	1	**NSYBPCH1016**
1.5 to 50	10	1	**NSYBPCH1050**

** Each terminal accepts up to 2 conductors with the specified section.*

Power distribution
Distribution blocks

PB500937-41



PB500938-35

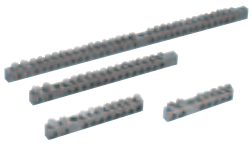


Fig. 3

PB500939-35

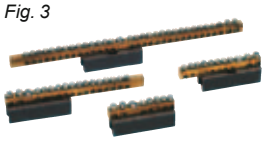


Fig. 4

PB500891-24



Fig. 4

PB500940-28



Fig. 5



Fig. 6



Fig. 7



Fig. 8

Three-pole junction terminals

Entry by plate and junction by cable (for busbars).

1 junction terminal

Entry plate width (mm)	Entry plate thickness (mm)	Junction cable section (mm²)	Reference
12/15/20/25/30	5 to 10	35 to 120	**NSYBTE630TBT**

Earthing strips

For the junction of neutral and earth cables.
■ Models **NSYRBL●●** (Fig. 3) for installation in boxes with insulating rear or by means of insulators, not supplied.
■ Models **NSYRBLZ●●** (Fig. 4) with insulating plinth for fitting under pressure on 12 x 2-mm rail.

10 earthing strips

Number of terminals x section mm²	Fig.	References
2 x 16 mm² + 5 x 6 mm²	3	**NSYRBL21656M**
2 x 16 mm² + 8 x 6 mm²	3	**NSYRBL21686M**
2 x 16 mm² + 14 x 6 mm²	3	**NSYRBL216146M**
2 x 16 mm² + 29 x 6 mm²	3	**NSYRBL216296M**
2 x 16 mm² + 5 x 6 mm²	4	**NSYRBLZ21656**
2 x 16 mm² + 8 x 6 mm²	4	**NSYRBLZ21686**
2 x 16 mm² + 14 x 6 mm²	4	**NSYRBLZ216146**
2 x 16 mm² + 29 x 6 mm²	4	**NSYRBLZ216296**

Distribution boards

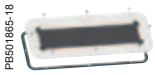
For distribution in a single row of circuit breakers with a total of 12 modules.

10 distribution boards

No. of bars	No. of poles per bar	Fig.	References
1	12	5	**NSYBDS112**
2	6	6	**NSYBDS26**
3	4	7	**NSYBDS34**
4	3	8	**NSYBDS43**

Cable management
Cable entries overview

Multiple cable entries







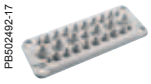


Characteristics	Flexicable	Multi-A	Multi-C	Multi-R
	Full membrane cable gland plate.	FL13 & FL21 type membranes.	Circular connector-free entries.	Rectangular connector-free entries.
Material	-	TPE, SBS, SEBS and PP co-polymer - halogen free	Polyamide	Polyamide
Colour	-	RAL 7035	-	-
Cable entry material	Soft membrane	Combined	Soft membrane	
Cable glands to be fitted	No	Optional: specific cable clamp ref. **NSYAECPFLACA●●** to be used	No	No
Installation possibilities	Replaces cable gland plate (S3D) or directly on enclosure	On cable gland plate adapter or directly on enclosure	On modified cable gland plate or directly on enclosure	On cable gland plate with special cut-out or directly on enclosure
Flexibility of the installation	Full	Medium	Medium	Medium
Reversibility	Medium	Medium	Full	Full
Ingress protection rating	IP55	IP65	IP65	IP65
Cable retention	Low	High with cable clamp, (up to 18 daN)	Medium	Medium
Cable diameter (mm)	Up to 26	From 13 to 30	From 3 to 15.9	From 4.3 to 15.9
Cable Installation time	Fast	Medium	Fast	Fast
Quantity of cables to be fitted for a given surface	+++	++	++	++
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	178 x 63 to 478 x 63	FL13 and FL21	Ø 50.5 Ø 63.5	112 x 36
External dimensions (mm)	From 245 x 130 to 545 x 130 or 495 x 220	216 x 84	Ø 58 Ø 71	146 x 14 x 58
Certificates	Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1	Cable anchorage pull test: EN 50262. Long term UV-resistance: ASTM G 154-06	■ UL 94 V-0 ■ Fire resistance: V0	■ UL 94 V-0 ■ Fire resistance: V0
Flame resistance	650°C	750°C	650°C	650°C
Temperature range	-	-40 to +85°C	-	-
References*				
See page	274	274	275	275

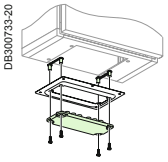
** For details, type the reference in the search engine of www.schneider-electric.com.*
(1) "Pop-out" membranes only.

Cable management
Cable entries overview

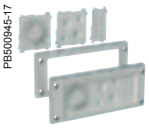
PB502492-17



DB300733-20



PB500945-17



PB500106-31



PB500944-17



	Multi-T	Prisma	Multi-F	Multi-CR	Multi-H
	FL21-type membranes.	FL21 or rectangular.	FL13 & FL21 pre-configured flanges.	Cable entries with dies for cables equipped with connectors.	FL21 insulated flange with ISO knockouts.
	TPE	Insulating material	Fibreglass-reinforced polypropylene and TPE - Halogen Free	Polyamide	Polycarbonate glass-fiber reinforced
	RAL 7035	-	RAL 7035	-	RAL 7035
				Hard plastic	
	No	No	No	Yes	Yes
	On cable gland plate adapter or directly on enclosure	On cable gland plate adapter or directly on enclosure	On cable gland plate adapter or directly on enclosure	On cable gland plate adapter or directly on enclosure	On cable gland plate adapter or directly on enclosure
	Medium	Medium	Medium	Low	Low
	Medium	Medium	Medium	Medium	Medium
	IP66	IP55	IP65	IP54	IP65
	Low	Low	Low	High (with fastener)	High (with cable clamp)
	From 5 to 60	From 28 to 60 (FL21) From 7 to 72 (rectangular)	From 16 to 50	From 3 to 31	From 12 to 25
	Fast	Fast	Fast	Slow	Slow
	++	++	++	++	++
	No	No	No	Yes	No
	FL21	FL21	134 x 52 (FL13) 214 x 90 (FL21)	36 x 112	FL21
	214 x 88	216 x 84	From 134 x 52 to 214 x 90	146 x 58	215 x 85
	UL 94 V-0	-	■ UL 94-HB ■ Test standard EN 60529:1991 + A1 EN 60670-1:2005, EN 50262:1998 EMKO-TUI (03-SEC)FI001/84. Semko report 816003 ■ UL-approved materials	-	UL 94 V-1
	650°C	-	-	650°C	750°C
	-	-	-20°C to +125°C (1)	-	■ For normal operation: -40°C to +80°C ■ For a short time: -40°C to +120°C
	276	278	277	277	276

Cable management
Cable entries overview

Simple cable entries









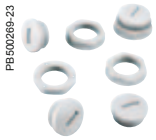


Characteristics	Simple-1	Simple-2	Simple-3	Simple-4	Simple-5
	Mixed membrane entries for enclosure thickness $20/10^{e}$ - $32/10^{e}$ mm.	PVC adjustable cone-shaped entries for enclosure thickness $30/10^{e}$ - $32/10^{e}$ mm.	Quick cable entries for enclosure thickness $10/10^{e}$ - $40/10^{e}$ mm ($5/10^{e}$ - $20/10^{e}$ mm for ref. **IMT36179**).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness $12/10^{e}$ - $15/10^{e}$ mm.	ISO cable gland.
Material	SBS	PVC	EPDM plastic	PVC	PA6, neoprene gasket
Colour	RAL 7035 light grey or RAL 9010 white	-	■ Grey cable entries: NCS 5500 ■ Black cable entries: NCS 9000	-	RAL 7035 grey
Cable entry material	Soft membrane		Combined		
Cable glands to be fitted	Not applicable				
Installation possibilities	On cable gland plate or directly on enclosure				
Flexibility of the installation	Low				
Reversibility	Medium				
Ingress protection rating	IP55	IP55	IP67	IP55	IP68
Cable retention	Low	Low	Medium	Low	High
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44	From 12 to 40
Cable Installation time	Fast	Fast	Fast	Fast	Slow
Quantity of cables to be fitted for a given surface	+	+	+	+	+
Cable entries for cables with connectors	No	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter				
External dimensions (mm)	-	From Ø 25 to 98	-	From Ø 25 to 52	From Ø 15 to 46
Certificates	-	-	-	-	Glow wire resistance: 960°C
Standard	-	-	-	-	Compliance with VDE, UL and CSA
Flame resistance	750°C	-	750°C	-	750°C
References*					
See page	280	280	281	281	280

** For details, type the reference in the search engine of www.schneider-electric.com.*

Cable management
Cable entries overview


PB500268-17


PB500269-23


PB500270-19

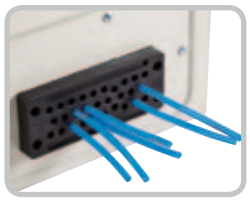
Characteristics	Multi-cable disc		Cable-gland gasket	Blanking plug	Transport plug
	It is possible to pass several cables through a single cable-gland using the multi-cable bushing.		-	It is screwed into the cable-gland's place.	It is installed to block the cable-gland during transport or during maintenance operations.
Material	-		-	-	-
Colour	-		-	-	-
Ingress protection rating	-		-	-	-
Standards	-		-	-	-
Other characteristics	-		-	-	-
Supply	-		Batch of 100 (M12 to M25), 50 (M32), 25 (M40)	Pack of 20 plugs (M12 to M15), 10 plugs (M32), 5 plugs (M40)	Pack of 20 plugs (M16 to M25), pack of 10 (M32), pack of 5 (M40)
Ø	**Number / Ø (mm)**	**References**	**References**	**References**	**References**
M12	-	-	**IMT36151**	**IMT36161**	-
M16	2 x Ø 4	**IMT36157**	**IMT36152**	**IMT36162**	**IMT36167**
M20	3 x Ø 4	**IMT36158**	**IMT36153**	**IMT36163**	**IMT36168**
M25	4 x Ø 5	**IMT36159**	**IMT36154**	**IMT36164**	**IMT36169**
M32	6 x Ø 5	**IMT36160**	**IMT36155**	**IMT36165**	**IMT36170**
M40	-	-	**IMT36156**	**IMT36166**	**IMT36171**

Cable management
Cable entries

Key features when selecting a cable entry

1 - Multiple cable entries or single cable entries

PB500023-38



Multiple

PB502701-58



Single

Your choice depends on:

■ The amount of cables going through the cable entry: generally for 3 or more cables, choose a multiple cable entry. It will make your installation faster and more economical.
In other words, your final bill will not necessarily be lower with single cable entries!

■ Flexibility of installation: for high flexibility, the multiple cable entry is the right choice.

2 - Entry cable material

■ **Soft membranes** allow cables to be easily pushed through, but still offer a good IP rating, protecting from moisture as well as physical intrusions. Cable retention force, however, is lower than with other alternatives.

PB502702



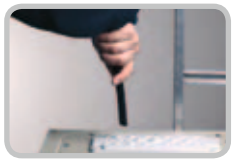
Push the membrane into a standard hole.

PB502703



Make a small hole in the membrane.

PB502704



Push the cable or tube through the guide hole.

PB502705



Pull the cable or tube back some 20 mm to lock it.

■ **Hard plastic** needs specific tools to create the opening (drill or knife) but, thanks to the cable gland, offers a very high retention force. Another use of this solution is for public places, since the hard surface prevents objects being pushed in.
■ **Combined:** the material of the cable entry plate is hard plastic, but the cable is pushed through a soft membrane. In this case you have the advantages both of soft membranes (easy and fast installation, flexibility) and hard plastic membranes (high retention force, when using specific cable clamps).

PB502707-70



PB501702



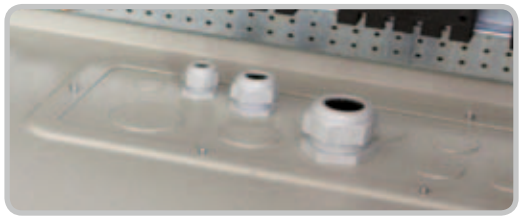
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PB501704-35



PB502706-68



3 - Cable glands to be fitted

■ Some multiple cable entries require a cable gland to be able to retain the cables and ensure the degree of protection.

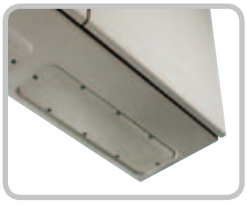
Cable management
Cable entries

4 - Installation possibilities

There are 4 ways to install your cable entries on the enclosure:

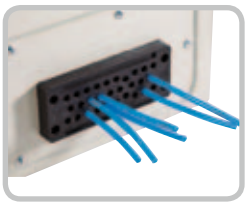
■ **By replacing the cable gland plate:** the standard cable gland plate of your S3D wall-mounting enclosure is unscrewed and replaced by the cable entry.
A gasket between enclosure and cable entry will provide full water and dust tightness.

PB500305-30



■ **On modified cable gland plate:** the standard cable gland plate is unscrewed and machined. A cut-out is created in it.

PB500023-35

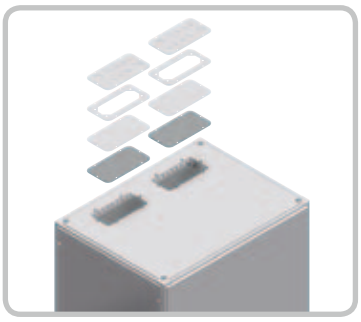


■ **On cable gland plate adapter:** this plate, which has the outer dimensions of a standard cable gland plate, has one or more pre-cut cut-outs of standard dimensions (FL13 and FL21).
On steel wall-mounting enclosures, the plate can replace the standard cable gland plate once the cable entry is fitted into it. On polyester enclosures, a cut-out must be created. Schneider Electric provides this service: a precise laser cut-out is factory-created upon request.
On steel floor-standing enclosures, you may either use the specific cable gland roof or create a cut-out (see expert's tip 1, page 273).

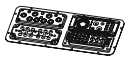
PB500462-44



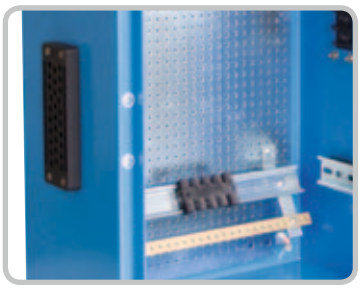
PB500599-37



Cable gland plate adapters

Enclosure range	1 membrane	2 membranes	3 membranes	4 membranes
Spacial S3D	PB500604-16  **NSYTL•FL**	PB500604-15 **NSYTL•2FL**	-	DB300718-15  **NSYTLG4FL**
Spacial SF	PB502708-10  **NSYSFLR••** **NSYSFLR•••**	PB502709-12  **NSYSFLR••** **NSYSFLR•••**	PB500597-15  **NSYSFLR•••**	-

PB500358-108



■ **Directly on the enclosure:** a cut-out is created on the enclosure's side according to the cable entry's dimensions (see expert's tip 1, page 273).

Zoom on…

FL13 and FL21 are standard cut-out dimensions frequently used in northern European countries and also used by our enclosures for several years now.

Cable management
Cable entries

PB502710-32



Full flexibility

PB500946-35



Medium flexibility

5 - Flexibility of the installation

■ **Full flexibility:** this means that cables can be added/removed easily, changing:
□ quantity
□ diameter
□ position
(see expert's tip 2, page 273)
■ **Medium flexibility:**
□ the amount, diameter or position of cables can be changed to a limited extent.
■ **Low flexibility:**
□ it is not possible to change the above parameters.

6 - Reversibility

■ **Full reversibility: this means that cables can be added/ removed easily** without losing their initial characteristics, such as water tightness.
■ **Medium reversibility:** for soft membranes, once the cable has been removed, there may be a loss of IP depending on the size of the cable and the cut. For hard plastic entries or combined material entries, initial characteristics are regained by adding plugs.
■ **Low reversibility:** the cable entry must be completely replaced in order to regain the initial characteristics.

7 - Degree of protection (IP)

If an enclosure is to be used in a clean, dry and well insulated environment, lower levels of IP may be acceptable (IP54 or IP55).
In a dusty environment you may require higher IP levels, such as IP65 or IP68 (see expert's tip 4, page 273).

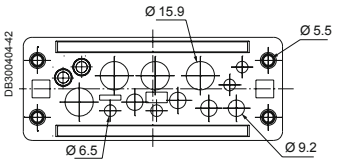
8 - Cable retention

Choose the right level of cable retention according to your needs. For locations accessible to the public, preferably choose a high level of cable retention.

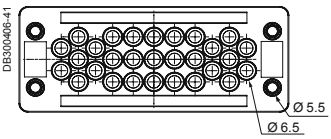
9 - Cable diameter

Choose the cable entry seal according to the cable diameter.
Take into account cable diameter tolerances.

DB300404-42



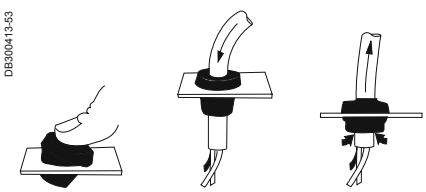
DB300406-41



10 - Cable installation time

Each cable entry has different installation characteristics. Some can be installed easily and quickly thanks to the soft membrane. Take this into account depending on labour costs in your region.

DB300413-53

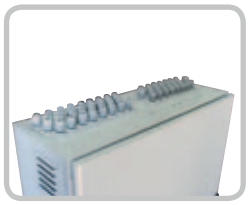


Cable management
Cable entries

PB502711-30



PB502712-31



11 - Quantity of cables to be fitted for a given surface

For some installations, a large quantity of cables must go through the cable entry.
Some cable entries can receive a high density of cables, which can result in more economical installation (fewer cable entries to be bought).
For small enclosures, it may simply be impossible to install too many cable entries due to the available space on the enclosure's wall (see expert's tip 3, page 273).

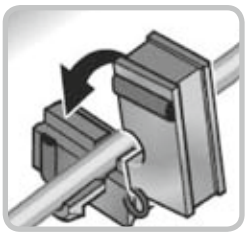
PB502713-34



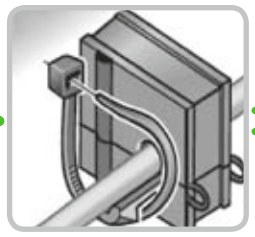
12 - Cable entries for cables with connectors

Some cables have large connectors which cannot be pushed through tight cable clamps or cable seals.
These cable entries have the unique advantage of not requiring the cable to be cut, thanks to the snap-fitting system.

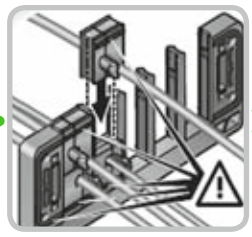
DB300410



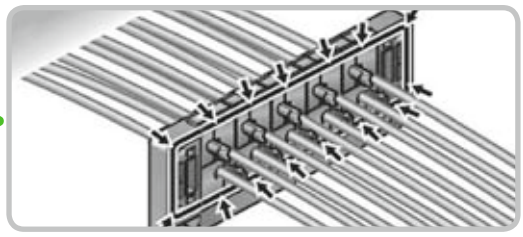
DB300410



PB502714

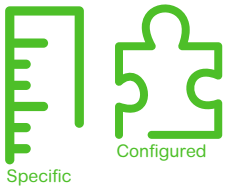


PB502715



A high cable retention force is provided thanks to the integrated cable fastener.

Expert's tip



❶ Some cable entries require cut-outs to be machined on the enclosure or cable gland plate.
Our customized offer provides this service.
The quality of your enclosure will therefore be guaranteed since the painting operation is performed after creating the cut-outs.

❷ Installing a cable entry with full flexibility is **the** solution when a large series of enclosures is being prepared for different types of installations.
By using one combination of enclosure-cable entry, you can cover a large variety of installations!

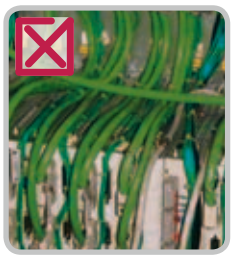
❸ When the cable entry has been defined, the next step is cable management inside the enclosure. For correct thermal management, all wires must be fitted and attached so as not to create an obstacle for correct air flow.
Consult our Universal Enclosures catalogue for cable management accessories (such as cable ducts) and consumables (such as cable ties).

❹ When your environment requires a high level of IP for your installation, make sure you have an appropriate thermal management system to avoid condensation or overheating problems.
Consult our Thermal Management offer in our Universal Enclosures catalogue and our Control Panel Technical Guide related to this issue.

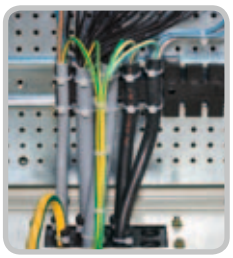
PB502716-53



PB502717-50



PB500966-50

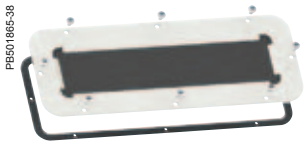


PB500965-44



Cable management
Cable entries

Dimensions



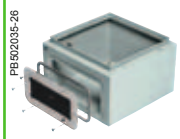


FL 13



FL 21

Characteristics	FlexiCable cable entries				Multi-A									
See page	266				266									
Supply	■ 1 metallic frame with pre-mounted membrane ■ 1 gasket ■ Hardware				-									
	Type	Plate dimensions (mm)		Effective cable entrance dimensions (mm)	References	Dimensions (mm)			No. of cable entries	Diameter of the cable entry (Ø mm)						References
		Width (A)	Depth (B)			H	W	D		13	14	15	16	18	21	30	
	C	245	130	178 x 63	**NSYTLCME**	**Type FL13**											
	D	345	130	278 x 63	**NSYTLDME**	20	135	47	7	-	-	4	-	-	3	-	**NSYAECPFLA7**
	E	445	130	378 x 63	**NSYTLEME**				10	6	-	-	4	-	-	-	**NSYAECPFLA10**
	F	545	130	478 x 63	**NSYTLFME**	**Type FL21**											
	G	495	220	428 x 153	**NSYTLGME**	25	215	86	25	-	16	-	-	6	-	3	**NSYAECPFLA25**
	D (1)	345	130	-	2 x **NSYTLDME**				33	-	24	-	-	9	-	-	**NSYAECPFLA33**
	E (1)	445	130	-	2 x **NSYTLEME**												



Mount FlexiCable on your S3D enclosure.



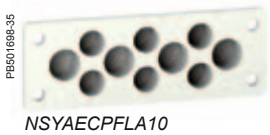
Create a hole with a screw driver.



Push the cable through FlexiCable and finish-off your installation.



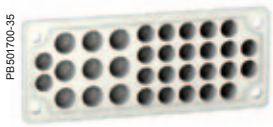
NSYAECPFLA7



NSYAECPFLA10



NSYAECPFLA25



NSYAECPFLA33

(1) Enclosure with 2 cable-gland plates.

Cable management
Cable entries

Dimensions

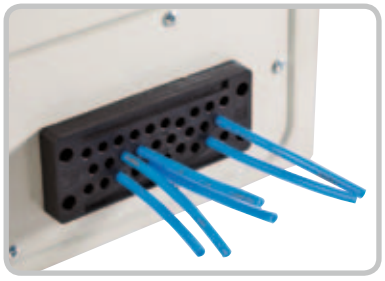
PB500024-57



DB300396-38



PB500023-56



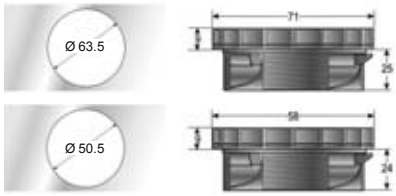
Multi-C

266

10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)

No. of openings	Dimensions/ cut-out Ø	Diameter of the cable entry (Ø mm)						References
		3-5.5	3-6.5	3.6-6.5	5-9.2	6-10	9.6-15.9	
4	50.5	-	-	-	-	3	1	**NSYTSAM504SE**
8	50.5	-	-	7	-	1	-	**NSYTSAM508SE**
8	63.5	-	2	-	4	-	2	**NSYTSAM638SE**
13	63.5	6	-	6	-	1	-	**NSYTSAM6313SE**

DB300397-53



DB300398-53

Position of the holes on the circular cable entries with diameters 50 and 63 mm

DB300400-12



NSYTSAM504SE

DB300401-12



NSYTSAM508SE

DB300402-12



NSYTSAM638SE

DB300403-12



NSYTSAM6313SE

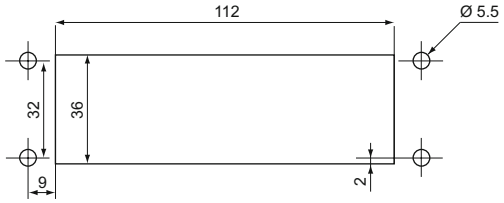
Multi-R

266

1 unit

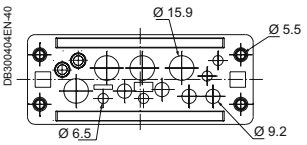
No. of openings	Dimensions/ cut-out Ø	Diameter of the cable entry (Ø mm)					References
		4.3-8.1	3-6.5	5-9.2	8-12.5	9.6-15.9	
14	112 x 36	-	6	4	-	4	**NSYTSA2414SE**
17	112 x 36	-	-	17	-	-	**NSYTSA2417SE**
22	112 x 36	-	16	4	2	-	**NSYTSA2422SE**
23	112 x 36	23	-	-	-	-	**NSYTSA2423SE**
29	112 x 36	-	29	-	-	-	**NSYTSA2429SE**

DB300399EN-65



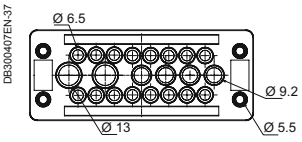
Diagrams of dimensions and positions of the holes on a rectangular cable entry

DB300404EN-40



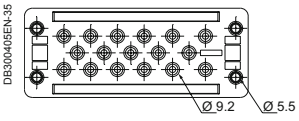
NSYTSA2414SE

DB300407EN-37



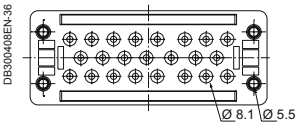
NSYTSA2422SE

DB300405EN-35



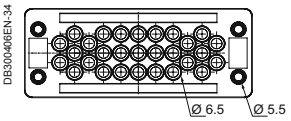
NSYTSA2417SE

DB300408EN-36



NSYTSA2423SE

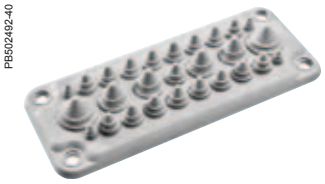
DB300406EN-34



NSYTSA2429SE

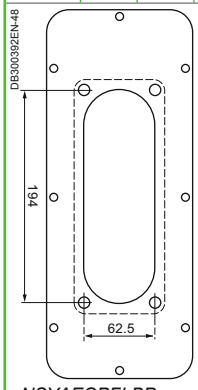
Cable management
Cable entries

Dimensions

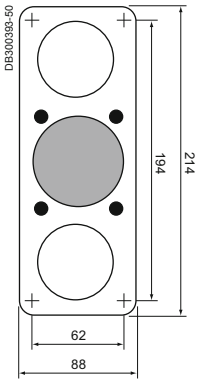




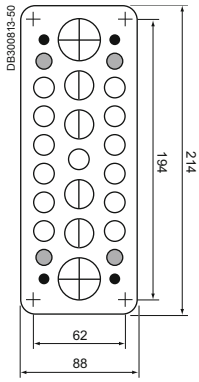
Characteristics	Multi-T												Multi-H			
See page	267												267			
Supply	-												-			
	No. of cable entries	Diameter of the cable entry (Ø mm)										References	Dimensions (mm)			Reference
		5-7	6-10	8-12	8-16	10-14	12-18	14-20	17-32	20-26	24-54	30-60		L1	L2	H	
	Type FL21													Type FL21			
	0	-	-	-	-	-	-	-	-	-	-	-	NSYAECPFLBP*	215	85	10	NSYTSAKFL
	7	-	-	-	4	-	-	-	-	-	2	1	NSYAECPFLT7				
	27	4	-	4	-	13	-	4	-	2	-	-	NSYAECPFLT25				
	37	-	4	14	-	16	2	-	1	-	-	-	NSYAECPFLT35				



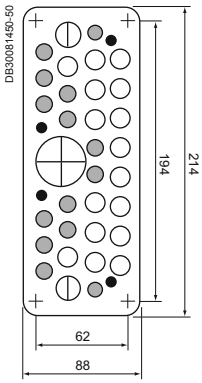
NSYAECPFLBP



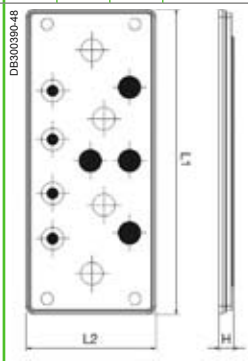
NSYAECPFLT7



NSYAECPFLT25



NSYAECPFLT35

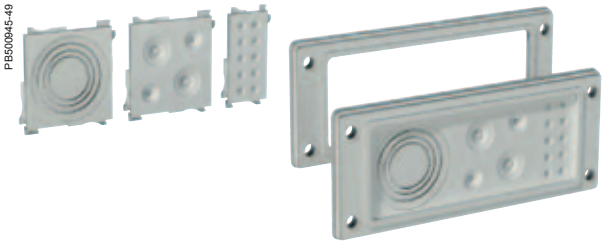


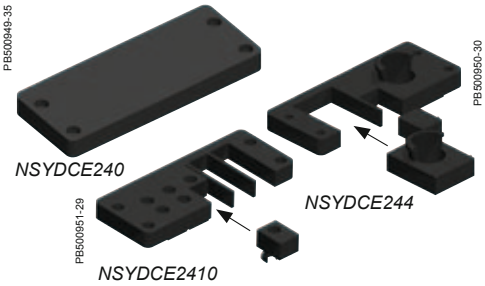
M16 or M25
M12
M12 or M20

** Metallic plate.*

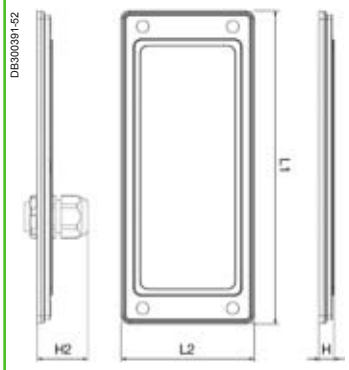
Cable management
Cable entries

Dimensions

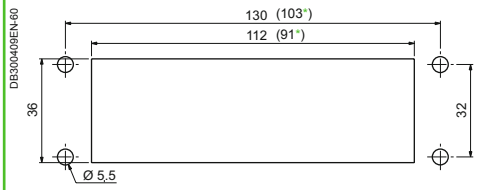




Multi-F										Multi-CR		
267										267		
-										1 die and fixing elements		
Dimensions (mm)				Diameter of the cable entry (Ø mm)					References	Connector cut-out type	Number of cable entries	References
L1	L2	H	H2	4-10 mm (1)	M16 (5-10 mm) (2)	M20 (6-13 mm) (2)	M25 (8-17 mm) (2)	M32 or M40 or M50 (3)				
Type FL13												
134	52	6.5	~35	10	-	1	-	-	**NSYAECPKFL11**	16	8	**NSYDCE168**
Type FL21										24	0	**NSYDCE240**
214	90	9	~35	-	2	2	2	1	**NSYAECPKFL7A**	24	4	**NSYDCE244** (4)
214	90	9	~35	-	-	6	-	1	**NSYAECPKFL7B**	24	10	**NSYDCE2410**
214	90	9	~35	-	4	2	4	-	**NSYAECPKFL10**			



Cut-out for reference NSYDCE24●●●



** Cut-out for reference **NSYDCE16●●●**.*

Split seals for cable entries equipped with connectors

■ Split seals suited to the diameter of the cable to be mounted on the cable-entry dies for the connectors. Ref. **NSYDCE●●●**.

■ **Supply:** 10 units. Reference per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

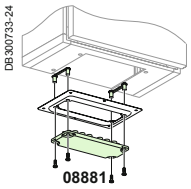
For cables Ø (mm)**	References
0	**NSYCEJD**
3-4	**NSYCEJD3**
5-6	**NSYCEJD5**
7-8	**NSYCEJD7**
9-10	**NSYCEJD9**
11-12	**NSYCEJD11**
13-14	**NSYCEJD13**
16-17	**NSYCEJD16****
18-19	**NSYCEJD18****
20-21	**NSYCEJD20****
22-23	**NSYCEJD22****
24-25	**NSYCEJD24****
26-27	**NSYCEJD26****
28-29	**NSYCEJD28****
30-31	**NSYCEJD30****

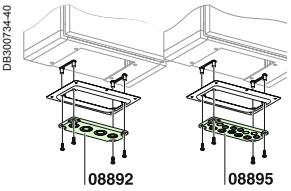
*** Large seal, 24/4 die only.*

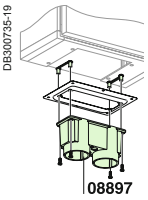
(1) "Pop-out" membranes only.
(2) "Pop-out" membranes or cable gland installation.
(3) Knock out system.
(4) NSYDCE244 accepts 4 entries: 2 large seals and 2 small seals.

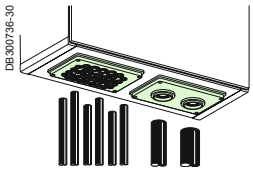
Cable management
Cable entries

Dimensions









Characteristics	Prisma									
Type	**FL21**								**225 x 137 mm opening**	
	Plain	**Pre-drilled**		**Membrane**					**Pre-drilled**	
	Solid cable-gland plates.	Suitable for receiving cable glands with metric pitch.		Membrane to be drilled according to the required diameter.					Suitable for receiving cable glands with metric pitch.	
See page	267									
	Reference	**References**		**No. entries**	**Amount of entries per Ø**	**Cable diameter comprised between**		**Ref.**	**References**	
						Min.	**Max.**			
	08881	2 x M20 or M32 + 2 x M25 or M40	**08892**	2	2	28	60	**08897**	With 39 entries from 7 to 26	**08898***
		5 x M16 or M25 + 8 x M20	**08895**						With 2 entries from 33 to 72	**08899**

** Reference 08898 is made up of:*
3 cables with diameters from 14 to 26.
4 cables with diameters from 10 to 20.
32 cables with diameters from 7 to 16.

Accessories for Multi-A





2 x 30 + 3 x 18 + 5 x 14 mm.

Characteristics	Cable clamp for improved cable retention					Blanking plugs
	Installation on FL 21 membrane type "A" for cable entrance to block cables when installed. It can be easily removed.					■ Installation on FL 21 membrane type "A" for cable entrance to fill the opening used. ■ Set of 2 plugs for diameter 30 mm, 3 plugs for diameter 18 mm and 5 plugs for diameter 14 mm.
Material	PA6 - halogen free					LDPE - halogen free
Installation	**1.** Push the cable through the membrane entrance to the desired position **2.** Put the cable clamp around the cable and slide it into the cable entry **3.** Push the cable clamp fully into the membrane entrance and the cable will be fixed					-
Other characteristics	Temperature range: -40 to +85°C					Temperature range: -30 to +50°C
	Cable clamp outer diameter (mm)	**Membrane entrance diameter (mm)**	**Cable diameter range (mm)**	**Supply**	**References**	**Reference**
	15	14	7-9	Set of 8	**NSYAECPFLACA14**	**NSYAECPFLAP**
	18	18	9-11	Set of 6	**NSYAECPFLACA18**	
	20	18	10-12	Set of 6	**NSYAECPFLACA20**	
	30	30	20-23	Set of 3	**NSYAECPFLACA30**	



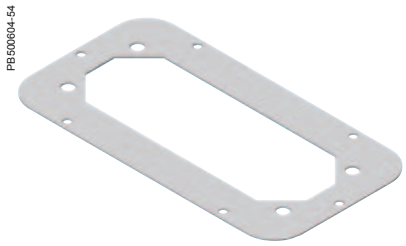


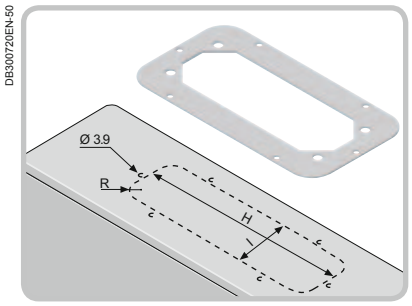


** Secure your installation with an easy solution for cable anchorage.*

Cable management
Cable entries

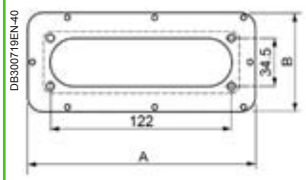
Dimensions

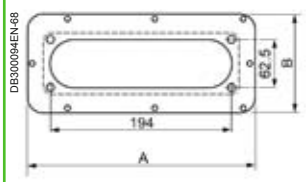




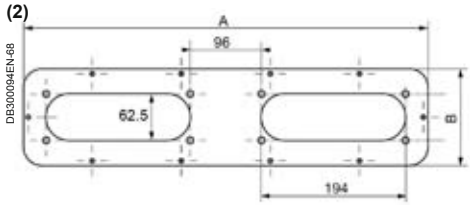
Characteristics		Steel adapter plate for FL13 and FL21 membranes				
		Allows the mounting of FL13 and FL21 membranes on every type of enclosure.				
Ingress protection rating		IP55				
Supply		Delivered with fixing screws and gasket				
Type		**Plate dimensions (mm)**		**Cut-out dimensions (mm)**		**References**
		A	**B**	**H**	**I**	
FL13	B	245	80	212	47	**NSYTLBFL** (1)
FL21	C	245	130	212	97	**NSYTLCFL** (1)
	D	345	130	312	97	**NSYTLDFL** (1)
	E	445	130	412	97	**NSYTLEFL** (1)
	F	545	130	512	97	**NSYTLFFL** (1)
						NSYTLF2FL (2)
	G	495	220	462	187	**NSYTLGFL** (1)
						NSYTLG2FL (2)
						NSYTLG4FL (3)

(1)

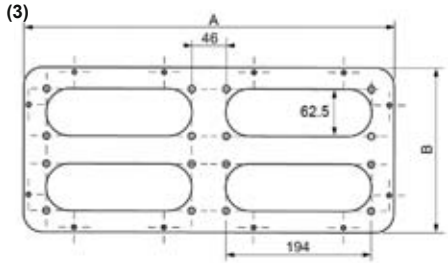




(2)

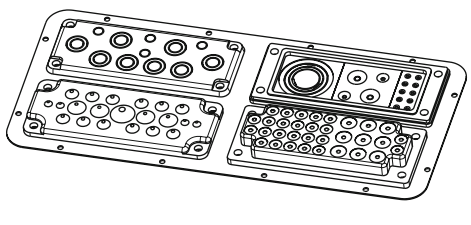


(3)



Our membrane can be easily adapted to fit onto all our metallic enclosures using the adapter plate.

Application example



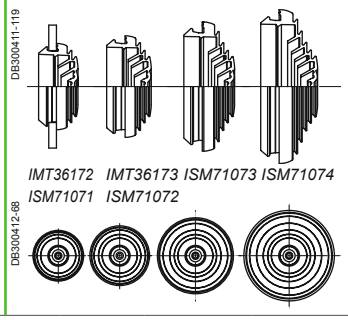
Cable management
Cable entries

Dimensions





Characteristics	Mixed membrane entries for IP55 direct cable entries				PVC adjustable cone-shaped entries										
See page	268				268										
Supply	Minor packaging of 10 pieces				-										
	Ø (mm)		References		Fig.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Supply	References
	Drill hole	Cable / conduit	RAL 9010	RAL 7035								Cable Ø	Tube		
	23	4 - 20	**IMT36172**	**ISM71071**	1	25	21.5	18	5	3.2	13	5 to 18	PG 9 to 11	50	**NSYECPC3**
	29	4 - 25	**IMT36173**	**ISM71072**		33	29.5	26	5	3.2	20	5 to 26	PG 9 to 16	25	**NSYECPC5**
	36	4 - 32	-	**ISM71073**		43	38.5	36	5	3.2	22	5 to 36	PG 9 to 21	25	**NSYECPC6**
	44	4 - 40	-	**ISM71074**	2	70	63	60	28	3	20	28 to 60	PG 21 to 48	10	**NSYECPC9**
						98	90	87	28	3	23	28 to 87	PG 21 to 48	10	**NSYECPC15**



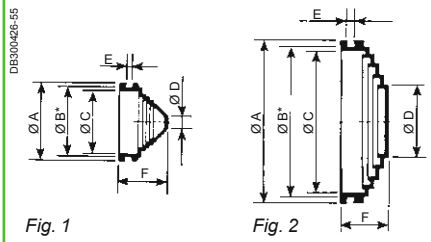


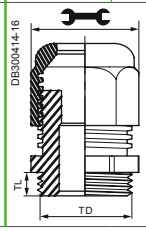
Fig. 1

Fig. 2

** Drill-hole for mounting.*



Characteristics	ISO cable-gland					
	The cable-gland (ref. **IMT36150**) is especially recommended for security circuits.					
See page	268					
Supply	■ The cable-glands are supplied with nuts ■ Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40)					
Ø	Ø min / max (mm)	drill Ø (2)	TD	TL		References
M12	3 / 6.5	12.2 (0 + 0.2)	12	6	15	**ISM71501**
M16	5 / 10	16.2 (0 + 0.2)	16	8	19	**ISM71502**
M20	6 / 12	20.2 (0 + 0.2)	20	10	24	**ISM71503**
M20 (1)	6 / 12	20.2 (0 + 0.2)	20	10	24	**IMT36150**
M25	11 / 17	25.2 (0 + 0.2)	25	8	29	**ISM71504**
M32	15 / 21	32.2 (0 + 0.3)	32	10	36	**ISM71505**
M40	19 / 28	40.5 (0 + 0.3)	40	10	46	**ISM71506**



(1) Cable-gland with high resistance to fire.
(2) In brackets: tolerance.

Cable management
Cable entries

Dimensions

PB500267-70



PB500976-37



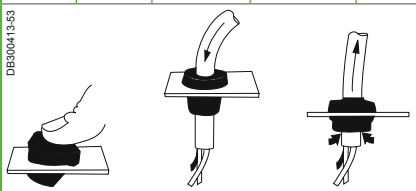
IP67 quick cable entries

268

-

ISO	Ø (mm)		Supply	References
	Drill hole	Cable		
M12	12.5	3 - 5	50	**IMT36179**
M16	16	5 - 7	50	**IMT36180**
M20	20.3	7 - 10	50	**IMT36181**
M25	25.3	10 - 14	50	**IMT36182**
M32	32.4	14 - 20	50	**IMT36183**
M40	40.7	20 - 26	25	**IMT36184**
M50	50.7	26 - 35	25	**IMT36185**

DB300413-53



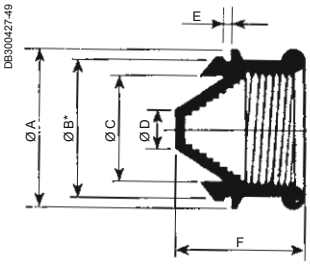
PVC adjustable cone-shaped entries

268

-

Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Supply	References
						Cable Ø	Tube		
25	19.5	16	3	1.2	21	3 to 16	PG 9	50	**NSYEC1**
			6	1.2	21	6 to 16	PG 11	50	**NSYEC2**
27	21.5	18	7	1.2	23	7 to 18	PG 13.5	50	**NSYEC3**
29.5	23.5	20	8	1.2	26	8 to 20	PG 16	25	**NSYEC4**
35	29.5	26	10	1.2	27	10 to 26	PG 21	25	**NSYEC5**
42	38.5	35	12	1.5	30	12 to 35	PG 29	25	**NSYEC6**
52	48.5	44	13	1.5	30	13 to 44	PG 36	25	**NSYEC7**

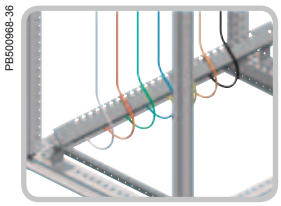
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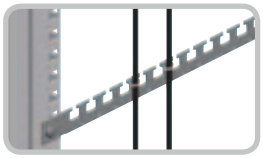


** Drill-hole for mounting.*

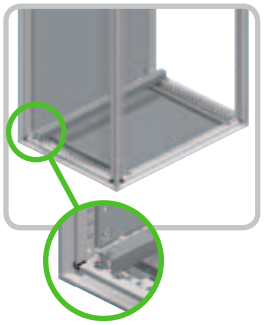
Cable management
Cable holding

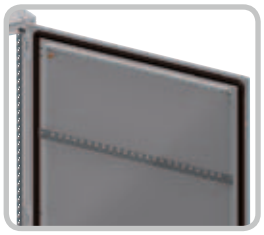
SM SF SMX SFX


PB500968-36

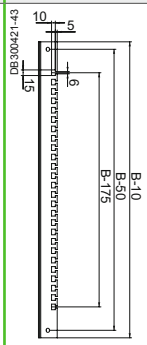

PB500969-41

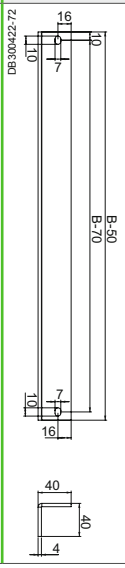

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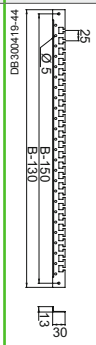

PB500971-32


PB500967-39

Characteristics	Lower cable-guide cross-rail	Cable-guide cross-rails for framework		L-rail for fixing cables	Door cable-guide cross-rail
	■ It allows quick fixing of cables entering and exiting the enclosure. ■ Depth adjustable every 25 mm.	Support types: ■ Angle support at 90°: for vertical cable fixing. ■ Angle support at 120°: for fixing cables near the cable entry.		■ Rail for fixing cables entering from the bottom. ■ Adjustable depth with a pitch of 25 mm. ■ It is not possible to mount it on a plinth cross rail.	■ Recommended for fixing cables in the internal equipment of the door. ■ Height adjustable every 25 mm.
Material	Galvanised steel	Zinc-coated steel		Zinc-coated steel	Zinc-coated steel
Fixing	■ **Spacial SF:** for suitable enclosures with widths of 1200 and 1600 mm, use the adaptation kit for 2-door suitable enclosures, see page 225 ■ **Spacial SM:** for floor-standing enclosures with a width of 1200 mm, a top/bottom mounting rail installed in central position is required ■ **Spacial SFX:** no adaptation piece is required for the 1200 mm suitable enclosures ■ **Spacial SMX:** no adaptation piece is required for the 1600 mm floor-standing enclosures	■ **Spacial SF and SFX:** support for direct mounting on the framework, cross-rails or rails ■ **Spacial SM:** fixing on the bottom mounting rail, or on the floor-standing enclosure by means of adaptation rails and 40 mm universal cross-rails (1 row) in vertical position ■ **Spacial SMX:** fixing on the bottom mounting rail and 40 mm universal cross-rails (1 row) in vertical position		■ **Spacial SF and SFX:** fixing to the bottom frame, above the cable entry, or else to the plinth, using the plinth cross rails, see page 101 ■ **Spacial SM and SMX:** fixing to the bottom adjustment rails, above the cable entry, or else to the plinth, using the plinth cross rails, see page 101 ■ The cables are fixed to the rail by means of metal clamps	■ Direct fixing on the reinforcement frame
Supply	1 cable-guide cross-rail and fixing elements	2 supports and fixing elements		One rail, two mounting supports and fixing elements	2 cable-guide cross-rails and fixing elements
Dimensions (mm)	**References**				
Width (B)		**Support angle**			
500	-	-	-	-	**NSYSDGCR5**
600	**NSYCFP60**	90°	**NSYCFS96**	**NSYFCG60**	**NSYSDGCR6**
		120°	**NSYCFS126**		
800	**NSYCFP80**	90°	**NSYCFS98**	**NSYFCG80**	**NSYSDGCR8**
		120°	**NSYCFS128**		
1000	**NSYCFP100**	-	-	**NSYFCG100**	**NSYSDGCR10**
1200	2 x **NSYCFP60**	-	-	**NSYFCG120**	-
1600	2 x **NSYCFP80**	-	-	**NSYFCG160**	-

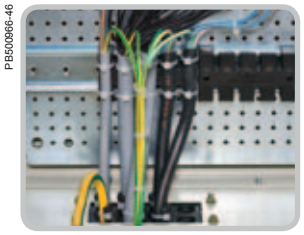






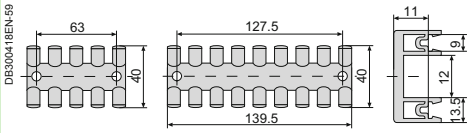
Cable management
Cable holding

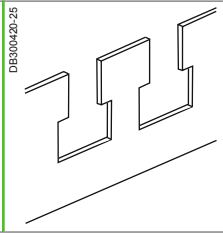
S3D S3X





Characteristics	Plastic cable support			Door cable-guide cross-rails for wall-mounting enclosures	
	It clips or screws onto 35 mm symmetric rails or a C-shaped rail.			■ They are installed on wall-mounting enclosures with heights from 400 mm for Spacial S3D and 500 mm for Spacial S3X. ■ They make it easy to equip the inside of the door. ■ Installation cable ties, see page 284.	
Fixing	Quick and easy fixing of cables using cable ties			■ They are fixed to the door reinforcement frame by 2 self-tapping screws. The angle can be directed towards the body of the enclosure or towards the door	
Supply	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)			2 cable-guide cross-rails and fixing elements	
Dimensions (mm)	**Support dimensions (mm)**	**Maximum no. of cables**	**References**	**Door dimensions (mm)**	**References**
	Width			**Width**	
	75	5	**NSYSCCDINLG75**	400	**NSYTFPCRN4**
	140	9	**NSYSCCDINLG140**	500	**NSYTFPCRN5**
				600	**NSYTFPCRN6**
				800	**NSYTFPCRN8**
				1000	**NSYTFPCRN10**





Cable management
Cable ties

Cintura cable ties


110150


110151

Cable tie for safe and fast clamping of cables, conduits and tubing. Delivered in a sealed packaging to ensure performance, irrespective of storage conditions.

■ **Material:** PA 6.6.

Max. clamping (mm)	Colour	Length (mm)	Qty per package	References
Cable tie width 2.5 mm				
Ø 18	Clear	100	1000	**ENN46902**
	Black			**ENN46952**
Ø 30	Clear	120	1000	**ENN46904**
	Black			**ENN46954**
Ø 50	Clear	200	1000	**ENN46906**
	Black			**ENN46956**
Cable tie width 3.6 mm				
Ø 33	Clear	140	1000	**ENN46908**
	Black			**ENN46958**
Ø 50	Clear	200	1000	**ENN46939**
Ø 76	Clear	295	100	**ENN46910**
	Black			**ENN46960**
Ø 102	Clear	370	100	**ENN46942**
Cable tie width 4.8 mm				
Ø 43	Clear	188	1000	**ENN46914**
	Black			**ENN46964**
Ø 50	Clear	200	1000	**ENN46916**
	Black			**ENN46966**
Ø 60	Clear	250	100	**ENN46918**
	Black			**ENN46968**
Ø 76	Clear	300	100	**ENN46919**
	Black			**ENN46969**
Ø 102	Clear	300	100	**ENN46920**
	Black			**ENN46970**
Cable tie width 7.6 mm				
Ø 76	Black	297	100	**ENN46974**
Ø 102	Clear	368	100	**ENN46925**
	Black			**ENN46975**
Cable tie width 9.0 mm				
Ø 120	Black	430	100	**ENN46976**
Ø 140	Clear	530	100	**ENN46927**
	Black			**ENN46977**
Ø 228	Black	775	100	**ENN46978**

Identification ties

P121326

P121329

P121328

Identification tie with marker for safe and fast clamping of cables, conduits and tubing. Delivered in a sealed packaging to ensure performance, irrespective of storage conditions.

■ **Material:** PA 6.6.

Max. clamping (mm)	Colour	Length (mm)	Qty per package	References
Marker size 20 x 9 mm, width 2.5 mm				
Ø 18	Clear	110	100	**ENN46220**
Marker size 25 x 8 mm, width 2.5 mm				
Ø 18	Clear	100	100	**ENN46220**
Marker size 23 x 13 mm, width 4.8 mm				
Ø 43	Clear	220	100	**ENN46225**

Accessories

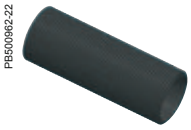

P121327


P121325

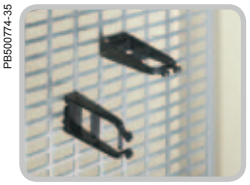

P121330

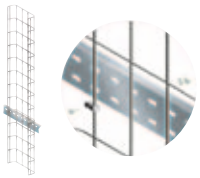
For max. tie width (mm)	Colour	Dimensions H x W x D (mm)	Qty per package	References
Self-adhesive bases				
Self-adhesive base for the fixing of cable ties. The base for max. tie width 4.8 mm is both self-adhesive and has an additional screw-fix option. ■ **Material:** PA 6.6.				
3.6	Clear	19 x 19 x 6	100	**ENN46104**
4.8	Clear	26.5 x 26.5 x 8	100	**ENN46105**
Cradle				
Cradle for the fixing of cable ties. Fixed with screw or rivet. ■ **Material:** PA 6.6.				
7.8	Clear	22.2 x 15.9 x 9.7	100	**ENN46109**
Cable tie pincers				
Pincers intended to facilitate tightening and cutting of 6 and 9 mm installation ties. ■ **Material:** steel.				
6 to 9	-	-	1	**ENN46150**

Cable management
Ducts


PB500962-22


PB500965-37


PB500774-35


PB500961-29

Characteristics	Corrugated cable tube				Spiral cable duct				Lyre-shaped clamps		Steel wired cable tray	
	■ Corrugated tube allowing cable entry between the structure and the door. ■ Free from halogens and heavy metals. ■ UV protection.				■ Spiral strip for bundling cables. ■ Allows cables to enter between the body and the door.				Clip-on clamps designed for direct installation on the 19" racks, Telequick mounting plates and symmetric DIN rails.		Mounting on the cable supports. Dimensions (2 types): ■ 1845 x 200 x 35 mm. ■ 1845 x 200 x 54 mm.	
Material	Low-density polyethylene (LDPE)				-				-		Zinc-coated steel wire	
Colour	Black				Colourless				Black		-	
Supply	One 25 m reel				One 50 m reel				10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)		1 vertical steel wired cable tray and fixing elements	
	Ø (mm)			**References**	**Tightening range (mm)**	**Ø (mm)**		**References**	**Use**	**References**	**Necessary depth (mm)**	**References**
	Nominal	**Inner**	**Outer**			**Inner**	**Outer**					
	17	16.6	21.2	**NSYCPT17**	12 to 100	9	12	**NSYTC12100**	For Telequick mounting plates and 19" racks	**AK2LA39**	35	**NSYBPC3**
	29	29	34.5	**NSYCPT29**							54	**NSYBPC5**
	37	36	42.4	**NSYCPT37**					For symmetric DIN rail 90 x 2.5 mm cables	**AK2LD01**		
	50	47.7	54.5	**NSYCPT50**								
									For symmetric DIN rail 75 x 2.5 mm cables	**AK2LD02**		

Fixing support for corrugated tube


PB500963-18


PB500964-20

■ Mounting options:
□ directly on the enclosure,
□ on a 19" swing rack and/or on cross-rails, by means of a fixing point.
■ The supports can be assembled with one another to form sets of tubes that allow a better arrangement of the cables.
■ It allows the rotation of the tube once it is fixed on the support and prevents the corrugated tube from coming loose if subject to pulling movements.
■ **Material:** polyamide (PA), black.
■ **Supply:** 10 units and fixing elements. The support is supplied with its cover.

Model (n. Ø)	References
17	**NSYCPTS17**
29	**NSYCPTS29**
37	**NSYCPTS37**
50	**NSYCPTS50**

n. Ø = nominal diameter.

Cable management
Ducts



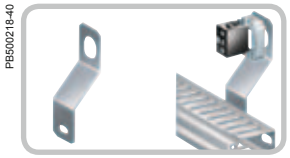


Characteristics			Cable-duct
			With lateral through slots and rear perforations.
Material			Rigid PVC
Colour			RAL 7030 grey or RAL 5000 blue
Standards			Compliance with standards VDE 0660/506 and DIN 43659
Other characteristics			■ Temperature resistance: -5 ... +60°C ■ Behaviour in fire: material V0 according to UL 94 ■ Fire resistance: 960°C according to IEC 60695-2-1/1 ■ Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6)
Supply			8 units. Supplied in lengths of 2 m
Width (mm)	**Height (mm)**	**Color**	**References**
25	25	Grey	**AK2GD2525**
	50	Grey	**AK2GD2550**
30	35	Blue	**AK2GA33**
	55	Blue	**AK2GA35**
	90	Blue	**AK2GA39**
	144	Blue	**AK2GA315**
37.5	50	Grey	**AK2GD3750**
	75	Grey	**AK2GD3775**
50	50	Grey	**AK2GD5050**
	75	Grey	**AK2GD5075**
60	55	Blue	**AK2GA65**
	90	Blue	**AK2GA69**
	144	Blue	**AK2GA615**
75	50	Grey	**AK2GD7550**
	75	Grey	**AK2GD7575**
100	75	Grey	**AK2GD10075**
125	75	Grey	**AK2GD12575**

Cable-duct accessories

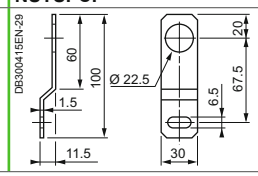
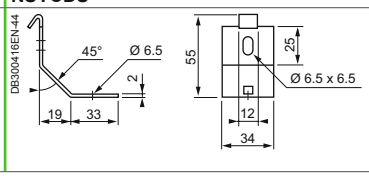


S3D SM SF S3X
SFX SDX PLA



SM SF SD SMX
SFX SDX PLA



Characteristics	Retention bars	Ø 22 mm cable-duct support	Cable-duct support on technical upright
	■ Fixed between 2 cable-duct slats by a hinged screw, preventing cable dropout. ■ They can be cut to length to adapt to the width of the ducting.	Installed on the door of the wall-mounting or floor-standing enclosure associated with Ø 22 mm elements.	Allows cable ducts to be installed on technical uprights, while increasing the usable surface of the equipment (up to 20 % according to the width of the cable duct).
Material	Flameproof high-impact polystyrene	Treated steel	Galvanised steel
Supply	50 units. Reference by unit. Order by multiples of 50 (50, 100, 150...)	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)
References			
	NSYCDRB	**NSYSPCP**	**NSYCDS**
			

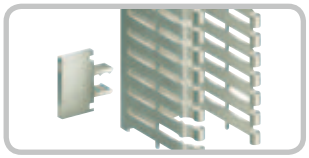
Cable management
Ducts


PB501811-49


PB501812-41

	Covers for cable-duct
	Replacement covers.
	Rigid PVC
	RAL 7030 grey or RAL 5000 blue
	Compliance with standards VDE 0660/506 and DIN 43659
	■ Temperature resistance: -5 ... +60°C ■ Behaviour in fire: material V0 according to UL 94 ■ Fire resistance: 960°C according to IEC 60695-2-1/1 ■ Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6)
	8 unit. Supplied in lengths of 2 m
	AK2CD25
	AK2CA3
	AK2CD37
	AK2CD50
	AK2CA6
	AK2CD75
	AK2CD100
	AK2CD125

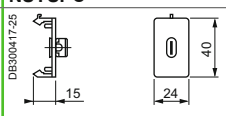

PB500775-40


PB500959-50

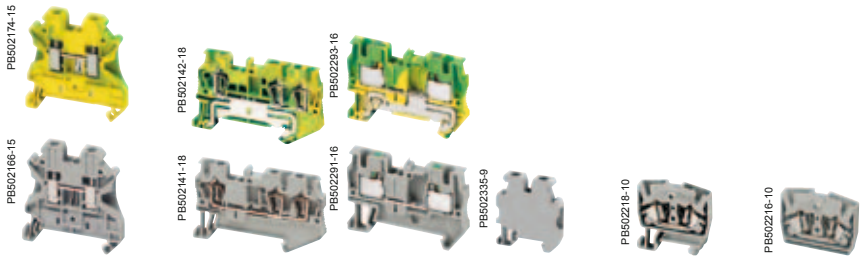

PB500960-40

	Plastic cable-duct support	Label frame	Insulated-head screw
	■ Clips onto the Telequick mounting plate or the 35 mm DIN rail. ■ Includes a bolt for fixing the cable ducts through the 6.5 x 14 mm drill holes made in the back. ■ The 2 functions, clipping and bolting, provide considerable time savings. ■ Respects electrical insulation.	In transparent plastic, clipping onto the slats of the cable ducts.	■ M5 x 10 mm slotted hexagonal head. ■ Respects electrical insulation.
	Black polyamide. Behaviour in fire: V0 according to UL 94	Polycarbonate	-
	20 units. Reference by unit. Order by multiples of 20 (20, 40, 60...)	■ 50 units. Reference by unit. Order by multiples of 50 (50, 100, 150...) ■ Paper labels supplied	100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)
	NSYSPC	**NSYCDL**	**NSYSM10M5HP**

DB300417-25



Terminal blocks
Selection guide

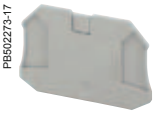


Characteristics			Connection technology					
References								
Type of terminal block	**Cross section area**	**Colour**	**Screw tech**	**Spring tech**	**Push-in tech**	**Miniature screw for 15 mm DIN rail**	**Miniature spring for 15 mm DIN rail**	**Miniature spring for direct mount**
Passthrough	2.5 mm² (2 pts)	Grey	**NSYTRV22**	**NSYTRR22**	**NSYTRP22**	**NSYTRV22M**	**NSYTRR22M**	**NSYTRR22MF**
		Blue	**NSYTRV22BL**	**NSYTRR22BL**	**NSYTRP22BL**	**NSYTRV22MBL**	**NSYTRR22MBL**	**NSYTRR22MFBL**
		Orange	**NSYTRV22AR**	**NSYTRR22AR**	**NSYTRP22AR**	-	-	**NSYTRR22MFF***
	2.5 mm² (3 pts)	Grey	-	**NSYTRR23**	**NSYTRP23**	-	-	-
		Blue	-	**NSYTRR23BL**	**NSYTRP23BL**	-	-	-
		Orange	-	**NSYTRR23AR**	**NSYTRP23AR**	-	-	-
	2.5 mm² (4 pts, 1 level)	Grey	-	**NSYTRR24**	**NSYTRP24**	-	**NSYTRR24M**	**NSYTRR24M**
		Blue	-	**NSYTRR24BL**	**NSYTRP24BL**	-	**NSYTRR24MBL**	**NSYTRR24MBL**
	2.5 mm² (4 pts, 2 levels)	Grey	**NSYTRV24D**	**NSYTRR24D**	**NSYTRP24D**	-	-	-
		Blue	**NSYTRV24DBL**	**NSYTRR24DBL**	**NSYTRP24DBL**	-	-	-
	4 mm² (2 pts)	Grey	**NSYTRV42**	**NSYTRR42**	**NSYTRP42**	**NSYTRV42M**	-	-
		Blue	**NSYTRV42BL**	**NSYTRR42BL**	**NSYTRP42BL**	**NSYTRV42MBL**	-	-
		Orange	**NSYTRV42AR**	**NSYTRR42AR**	-	-	-	-
	4 mm² (3 pts)	Grey	**NSYTRV43**	**NSYTRR43**	**NSYTRP43**	-	-	-
		Blue	**NSYTRV43BL**	**NSYTRR43BL**	**NSYTRP43BL**	-	-	-
		Orange	**NSYTRV43AR**	-	-	-	-	-
	4 mm² (4 pts, 1 level)	Grey	**NSYTRV44**	**NSYTRR44**	**NSYTRP44**	-	-	-
		Blue	**NSYTRV44BL**	**NSYTRR44BL**	**NSYTRP44BL**	-	-	-
	4 mm² (4 pts, 2 levels)	Grey	**NSYTRV44D**	**NSYTRR44D**	-	-	-	-
		Blue	**NSYTRV44DBL**	**NSYTRR44DBL**	-	-	-	-
	6 mm² (2 pts)	Grey	**NSYTRV62**	**NSYTRR62**	-	-	-	-
		Blue	**NSYTRV62BL**	**NSYTRR62BL**	-	-	-	-
	10 mm² (2 pts)	Grey	**NSYTRV102**	**NSYTRR102**	-	-	-	-
		Blue	**NSYTRV102BL**	**NSYTRR102BL**	-	-	-	-
	16 mm² (2 pts)	Grey	**NSYTRV162**	**NSYTRR162**	-	-	-	-
		Blue	**NSYTRV162BL**	**NSYTRR162BL**	-	-	-	-
	150 mm² (2 pts)	Grey	**NSYTRV1502BB**	-	-	**NSYTRV22MPE**	**NSYTRR22MPE**	-
Earth protection	2.5 mm² (2 pts)	Green	**NSYTRV22PE**	**NSYTRR22PE**	**NSYTRP22PE**	-	-	-
	2.5 mm² (3 pts)	Green	-	**NSYTRR23PE**	**NSYTRP23PE**	-	-	-
	2.5 mm² (4 pts)	Green	-	**NSYTRR24PE**	**NSYTRP24PE**	-	-	-
	4 mm² (2 pts)	Green	**NSYTRV42PE**	**NSYTRR42PE**	**NSYTRP42PE**	**NSYTRV42MPE**	-	-
	4 mm² (3 pts)	Green	**NSYTRV43PE**	**NSYTRR43PE**	**NSYTRP43PE**	-	-	-
	4 mm² (4 pts)	Green	**NSYTRV44PE**	**NSYTRR44PE**	**NSYTRP44PE**	-	-	-
	6 mm² (2 pts)	Green	**NSYTRV62PE**	**NSYTRR62PE**	-	-	-	-
	10 mm² (2 pts)	Green	**NSYTRV102PE**	**NSYTRR102PE**	-	-	-	-
	16 mm² (2 pts)	Green	**NSYTRV162PE**	**NSYTRR162PE**	-	-	-	-
Knife disconnect	2.5 mm² (2 pts)	Grey	**NSYTRV42ST** (1)	**NSYTRR22SC**	**NSYTRP22SC**	-	-	-
		Orange	**NSYTRV42STAR** (1)	**NSYTRR22SCAR**	-	-	-	-
	2.5 mm² (3 pts)	Grey	-	**NSYTRR23SC**	**NSYTRP23SC**	-	-	-
		Orange	-	**NSYTRR23SCAR**	-	-	-	-
	2.5 mm² (2 levels)	Grey	**NSYTRV42SCD** (1)	**NSYTRR24SCD**	-	-	-	-
Fuse disconnect	4 mm² (2 pts) 5 x 20 mm fuse	Black	**NSYTRV42SF5**	-	-	-	-	-
		Black (12 V)	**NSYTRV42SF5LD** (2)	-	-	-	-	-
		Black (230 V)	**NSYTRV42SF5LA** (2)	-	-	-	-	-
Basic disconnect (3)	4 mm² (2 pts)	Grey	**NSYTRV42TB**	**NSYTRR22TB**	**NSYTRP42TB**	-	-	-
Measuring transducer	6 mm² (2 pts) disconnect	Grey/Orange	**NSYTRV62TTD**	-	-	-	-	-
	6 mm² (2 pts)	Grey	**NSYTRV62TT**	-	-	-	-	-
	6 mm² (2 pts)	Green	**NSYTRV62TTPE**	-	-	-	-	

** Grey terminal with flange.*
(1) 4 mm² terminal, with 2 test points.
(2) With light indicator.
(3) Fuse or component carrier not supplied.

Terminal blocks
Selection guide


PB502217-10


PB502273-17


PB502245-28


PB502127-17


PB502336-20


PB503378-4
PB503379-20

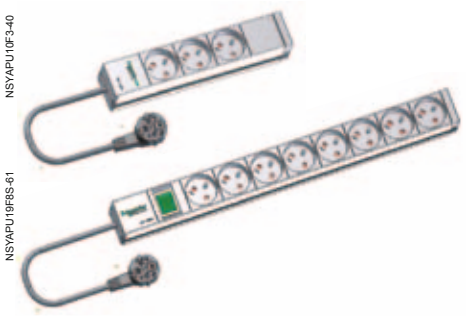
Accessories

	Miniature spring for direct mount	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
	NSYTRR22MP	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22 NSYTRAL23 NSYTRAL24 NSYTRAL25 NSYTRAL210 NSYTRAL210BL NSYTRAL210GR NSYTRAL220	NSYTRAB510 NSYTRAB520 NSYTRAB530 NSYTRAB540 NSYTRAB550 ... NSYTRAB590 NSYTRAB5100 NSYTRAB51100
	NSYTRR22MPBL	NSYTRAC22BL	NSYTRACR22BL	NSYTRACR22BL		
	-	-	-	-		
	-	-	NSYTRACR23	NSYTRACR23		
	-	-	NSYTRACR23BL	NSYTRACR23BL		
	-	-	-	-		
	NSYTRR24MP	-	NSYTRACR24	NSYTRACR24		
	NSYTRR24MPBL	-	NSYTRACR24BL	NSYTRACR24BL		
	-	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		
	-	-	-	-		
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42 NSYTRAL43 NSYTRAL44 NSYTRAL45 NSYTRAL410 NSYTRAL410BL NSYTRAL410GR NSYTRAL420	NSYTRAB610 NSYTRAB620 NSYTRAB630 NSYTRAB640 NSYTRAB650 ... NSYTRAB690 NSYTRAB6100 NSYTRAB61100
	-	NSYTRAC22BL	-	-		
	-	-	-	-		
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	-	-	-	-		
	-	-	-	-		
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	-	-	-	-		
	-	NSYTRACE24	NSYTRACRE44	-		
	-	-	-	-		
	-	NSYTRAC22	NSYTRACR62	-	NSYTRAL62	NSYTRAB810
	-	NSYTRAC22BL	-	-	NSYTRAL610	NSYTRAB820
	-	NSYTRAC22	NSYTRACR102	-	NSYTRAL102	NSYTRAB1010
	-	NSYTRAC22BL	-	-	-	NSYTRAB1020
	-	NSYTRAC162	NSYTRACR162	-	NSYTRAL162	NSYTRAB1010
	-	-	-	-	-	NSYTRAB1020
	-	NSYTRAC952	-	-	NSYTRAL1502	-
	-	NSYTRAC22	NSYTRACR22	NSYTRACR22		
	-	-	NSYTRACR23	NSYTRACR23		
	-	-	NSYTRACR24	NSYTRACR24		
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42		
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	-	NSYTRAC22	NSYTRACR62	-		
	-	NSYTRAC22	NSYTRACR102	-		
	-	NSYTRAC162	NSYTRACR162	-		
	-	Included	NSYTRACR23	NSYTRACPK22		
	-	Included	-	-		
	-	-	NSYTRACR24	NSYTRACPK23		
	-	-	-	-		
	-	NSYTRACE24	Included	-		
	-	Included	-	-		
	-	Included	-	-		
	-	Included	-	-		
	-	Included	NSYTRACR23	NSYTRACR42		
	-	NSYTRACT22	-	-		
	-	NSYTRACT22	-	-		
		NSYTRACT22	-	-		

Cable ends compatible with all technologies

Wires Cross section area	References
0.5 mm²	DZ5CE005 DZ5CA005
0.75 mm²	DZ5CE007 DZ5CA007
1 mm²	DZ5CE010 DZ5CA010
1.5 mm²	DZ5CE015 DZ5CA015
2.5 mm²	DZ5CE025 DZ5CA025
4 mm²	DZ5CE042 DZ5CA042
6 mm²	DZ5CE062 DZ5CA062
10 mm²	DZ5CA102
16 mm²	DZ5CA162
35 mm²	DZ5CA352
50 mm²	DZ5CA502

Lighting and power sockets
Power distribution rails



Characteristics				UTE - 16 A / 230 V~ with pin-earthed outlets
				■ Sockets set at 35° with child protection. ■ Aluminium profile silver - heigh 1 U. ■ Equipped with power cord (3G 1.5 mm²) type H05 VVF, equipped with a mould right angle plug with earthing contact system. ■ Could be used in: France, Belgium, Poland, Monaco, Slovakia, Czech Republic.
Material				Fibreglass polyamide plastic with fire resistance to 850°C
Standards				According to NFC61314, IEC 60884 and NBNC61112-1 standards
Number of sockets	**Width (mm)**	**Depth (mm)**	**Type***	**References**
10" Adapted				
3 sockets outlets	10"	44	A	**NSYAPU10F3**
3 sockets outlets with recessed green led switch	10"	44	B	**NSYAPU10F3S**
19" Adapted				
9 sockets outlets	19"	44	A	**NSYAPU19F9**
8 sockets outlets with recessed green led switch	19"	44	B	**NSYAPU19F8S**
6 sockets outlets with overvoltage protection 16 A	19"	76	C	**NSYAPU19F6CB**
7 sockets outlets with overvoltage protection 16 A + frequency filters	19"	44	D	**NSYAPU19F7FA**
7 sockets outlets	19"	44	A	-
6 sockets outlets with recessed green led switch	19"	44	B	-
Vertical - 0U				
10 sockets outlets with recessed green led switch (D. 968 mm)	968	44	B	**NSYAPUF10S**
12 sockets outlets with overvoltage protection 16 A (D. 1232 mm)	1232	76	C	**NSYAPUF12CB**

** A: Rail of sockets without protection.*
B: Rail of sockets with recessed green LED switch.
C: Rail of sockets with bi-polar magnetothermal circuit-breaker C16 type C60N 16 A curve C.
D: Suppression filter for interferences of up to 30 MHz, nominal frequency 400 Hz, attenuation 20 dB per decade.

Lighting and power sockets
Power distribution rails

NSYAPU10S3-40
NSYAPU19S8S-62



NSYAPU19UK6S-61



	VDE - 16 A / 230 V~ with side-earthed outlets	UK - 13 A / 240 V~ with BS standard outlets
	■ Sockets set at 35° with child protection. ■ Aluminium profile silver - heigh 1 U. ■ Equipped with power cord (3G 1.5 mm²) type H05 VVF, equipped with a mould right angle plug with earthing contact system. ■ Could be used in: Germany, Austria, Netherlands, Italy (partial), Spain, Portugal, Sweden, Norway, Finland, Slovenia, Romania, Hungary, Afghanistan, Andorra, Vatican City, San Marino, Estonia, South Korea, Indonesia, Iceland, Chile, Bulgaria.	■ Sockets set at 90° with child protection. ■ Aluminium profile silver - heigh 1 U. ■ Equipped with power cord (3G 1.5 mm²) type H05 VVF, equipped with a mould right angle plug with earthing contact system.
	Fibreglass polyamide plastic with fire resistance to 850°C	Fibreglass polyamide plastic with fire resistance to 850°C
	According to DIN49 440, VDE0620-1, IEC 60884 and UNE20315 standards	-
	NSYAPU10S3	-
	NSYAPU10S3S	-
	NSYAPU19S9	-
	NSYAPU19S8S	-
	NSYAPU19S6CB	-
	NSYAPU19S7FA	-
	-	**NSYAPU19UK7**
	-	**NSYAPU19UK6S**
	NSYAPUS10S	-
	NSYAPUS12CB	-

PB500985-35



PB500984-32



Characteristics	Fixing brackets	
	Fixing to the ends of the rail	Fixing with an orientation of 90°
	For vertical assembly of distribution rails.	
Material	Treated steel	
Thickness	10/10e mm	
Supply	Batch of 2 brackets, adaptable to all rails, delivered with fixings	
References		
	NSYAPUBV	**NSYAPUB**

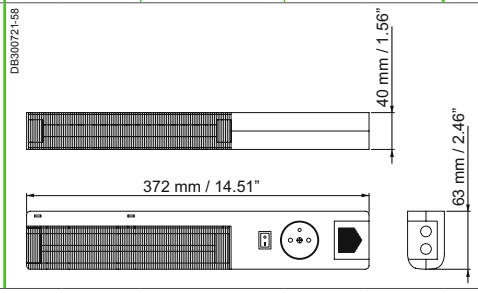
Lighting and power sockets
LED lamps

New



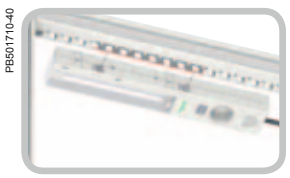
Characteristics	Multi-Fixing LED Lamps
	This LED lamps are designed to optimise the life time, consumption, space and accessibility inside the enclosure, as well as having three fixing option as standard.
Colour	Black RAL 9005
Ingress protection rating	IP20
Standards	■ IEC 60598 ■ UL 94: for plastic components ■ UL508A: Control Panel ■ UL1598: Lamps ■ UL8750: LED for lighting ■ EN55015: EMC
Other characteristics	■ Built-in switch ■ Power consumption: 10 W ■ Frequency: 50/60 Hz ■ Power factor: □ V AC lamps: 0,9 □ V DC lamps: 1 ■ Luminosity: 640 lm* ■ Light Temperature: 4000 K* ■ LED service life: 25000 h* ■ Casing: Plastic UL94 V-0 ■ Degree of insulation: □ Class I - Lamps with socket □ Class II - Lamps without socket ■ Compliant with RoHS and Reach ■ Ambiance temperature: □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F)
Connections	■ 3 m connection cable with quick connector (not supplied) ■ 1 m interconnection cable with quick connectors (not supplied)
Supply	1 lamp and fixing elements

	With socket			Without socket		With presence detection and without socket	
Voltage	**Socket**	**References**	**Certification**	**References**	**Certification**	**References**	**Certification**
120/230 V AC	Schuko	**NSYLAMLDS**	IEC 60598	**NSYLAMLD**	IEC 60598	**NSYLAMLDD**	IEC 60598
	UTE	**NSYLAMLDF**					
	British	**NSYLAMLDB**					
120 V AC	UL-CSA	**NSYLAMLDU**	UL 508A C22.2 No. 14-10 UL 94 UL1598 UL8750	**NSYLAMLD120**	UL 508A C22.2 No. 14-10 UL 94 UL1598 UL8750	-	
24/48 V DC	-	-	-	**NSYLAMLDVDC**	IEC 60598 UL 508 C22.2 No. 14-10	-	

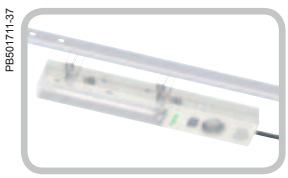


** Approximate values.*

3 fixing options



Fixing by sliding brackets.



Fixing to DIN rail.



Magnetic fixing.

Cables	References
■ 3 m power cable with quick connector to be connected to the lamp	**NSYLAM3M**
■ 1 m interconnection cable with quick connector in both sides ■ Maximum quantity of lamps interconnected: 5	**NSYLAM1M**



Rack for VDI

■ 1 U, 19" rack. For lamp installation in VDI enclosures.
■ **Supply:** supplied with fixing elements.

Reference
NSYLAM1U

Lighting and power sockets
LED lamps

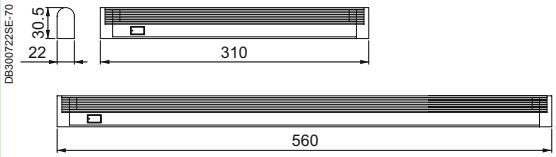
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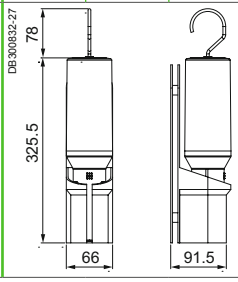

PB503390


PB503391-43

Characteristics	Cost-effective LED Lamps	Portable LED lamp
	This LED lamp is designed to optimise the cost benefit relation and can be used in all most all enclosures respecting the dimensions. It can be interconnected using a single power source: ■ 5 W lamps: max. 10 lamps interconnected, ■ 10 W lamps: max. 5 lamps interconnected.	This LED portable lamp is designed to be installed as enclosure lamp or maintenance lamp bringing mobility, resistance, versatility and durability. ■ Double function: □ internal enclosure lamp, □ maintenance lamp.
Colour	Aluminium	Black RAL 9005
Ingress protection rating	IP20	IP20
Standards	■ IEC 60598	■ IEC 60598 ■ UL 94: for plastic components
Other characteristics	■ Built-in switch ■ Light Temperature: 4000 K* ■ LED service life: 25000 h* ■ Casing: □ Plastic for transparent cover and connectors □ Aluminium for body ■ Degree of insulation: Class I ■ Compliant with RoHS and Reach ■ Ambiance temperature: □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F)	■ E27 LED lamp ■ Built-in recessed switch ■ Light temperature: 4000 K* ■ LED service life: 25000 h* ■ Power cable 3 m long with male plug (European standard type) ■ Casing: plastic, UL94 V-0 ■ Degree of insulation: Class II ■ Compliant with RoHS and Reach ■ Ambiance temperature: □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F)
Supply	■ 1 lamp and fixing elements ■ 3 m connection cable with quick connector ■ 1 m interconnection cable with quick connectors	■ 1 lamp with 3 m power cable with European universal plug ■ 1 fix base ■ Fixing elements

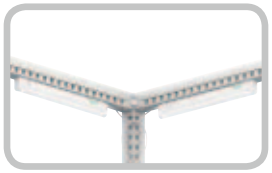
Voltage	Power	Power factor	Frequency	Lumens	References	Power	Power factor	Frequency	Lumens	Reference
(V)	(W)		(Hz)	(lm)*		(W)		(Hz)	(lm)*	
120/230 V AC	5	0.8	50-60	500	**NSYLAMT5LD1**	10	0,5	50-60	1100	**NSYLAMPORTLD**
	10	0.9	50-60	1100	**NSYLAMT5LD2**					
24/48 V DC	5	1	-	470	**NSYLAMT5LD1VDC**	-	-	-	-	-





**Approximate values.*

2 fixing options


PB501722-33

Fixing by adapter brackets.


PB501717-18

Magnetic fixing.

2 fixing options


PB501724-34

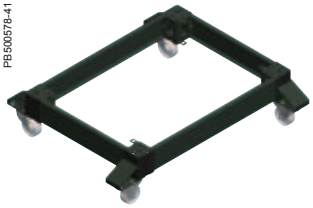
Fixing by adhesive or by screws.


PB501725-26

Floor accessories

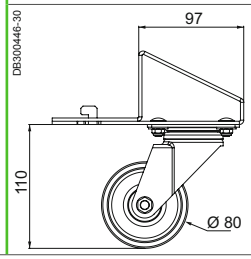
Casters and feet for floor-standing enclosures

SM SF SD
SMX SFX SDX





Characteristics	Transport casters*	Enclosure casters
	■ Quick installation on plinths with heights of 100 and 200 mm, except the plinth for enclosure sets. ■ They can be installed in front or side position. ■ Clipping and fixing to the corner by screws. ■ For use on flat surfaces. ■ Height: 110 mm.	■ Double casters. ■ Height: 92 mm. ■ Diameter: 64 mm.
Maximum load	50 kg per castor	135 kg per caster
Supply	4 transport casters (2 with a blocking system) and fixing elements	4 casters and fixing elements
References		
	NSYSTW	**NSYSW**

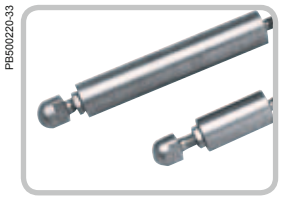


** Only for Spacial SM, SF and SD.*

SM SF SD
SMX SFX SDX







Characteristics	Levelling feet		Hygienic stainless-steel feet
	Fixed	**Adjustable**	
	Height: 42 mm.	Height: 22 mm.	Hygienic feet specific for harsh environments. Adjustable: 140 to 200 mm.
Material	Steel	-	316L stainless steel
Maximum load	100 kg per foot		100 kg per foot
Supply	Set of 4 floor feet		Set of 4 hygienic feet
References			
	NSYSPSJ	**NSYSPRJ**	**NSYPHX200**

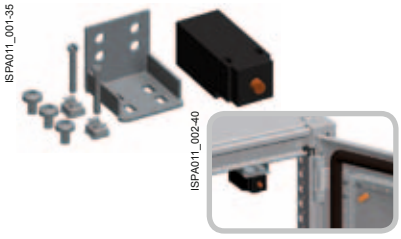
Door accessories
Switches and pockets

Switches

S3D S3X

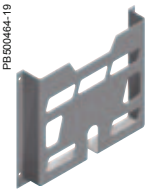


SM SF SFX



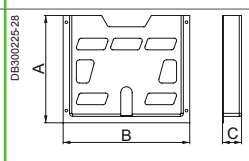
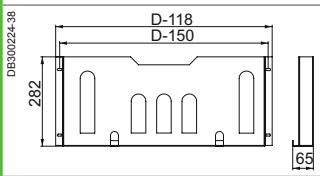
Characteristics	Door switch for wall-mounting enclosures	Door switch for floor-standing enclosures	
	■ Switch/commutator unit equipped with support and fixings for direct fixing to the enclosure. ■ Can be used to control lighting, air-conditioning units, etc. ■ It is not compatible with installing the 19" swing rack and the internal door. ■ NC + NO contact, 10 A/500 V.	■ The switch is fixed to the structure of the enclosure. ■ Drilled M20 cable entry for cable gland. ■ NC + NO contact, 10 A/500 V.	
Supply	1 door switch and fixing elements	1 door switch and fixing elements	
	Reference	**For ranges**	**References**
	NSYINLCRN	SF & SFX	**NSYDCM20**
		SM	**NSYMDCM20**

Pockets



SM SF SMX SFX



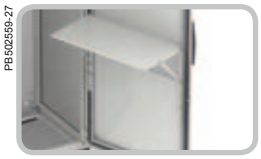
Characteristics				Plastic document pocket	Metal document pocket
				Fixing by adhesive tape.	Direct fixing on the door reinforcement frame. Height adjustable in steps of 25 mm.
Material				Polystyrene (PS)	Steel
Finish				-	Painted with polyester-epoxy resin
Colour				RAL 7035 grey (NSYDPA4: RAL 9001)	RAL 7035 grey
Maximum load				-	-
Supply				1 plastic document pocket	1 metal document pocket and fixing elements
Dimensions (mm)				**References**	
Doc. format	**A**	**B**	**C**		
A5	174	188	22	**NSYDPA5**	-
A4	230	247	23	**NSYDPA4**	-
A4	234	278	40	**NSYDPA44** (1)	-
A3	285	476	35	**NSYDPA3**	-
Width (D)					
600				-	**NSYSDP6M**
800				-	**NSYSDP8M**
					

(1) Not compatible with 19" chassis or modular distribution.

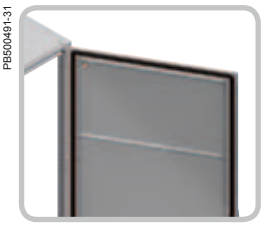
Door accessories

Door accessories for floor-standing enclosures

SM SF SMX SFX

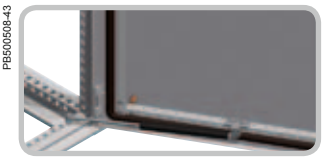

PB502559-27


PB502558-27


PB500491-31

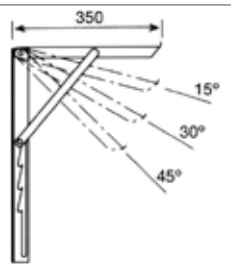
SM SF


PB500767-39

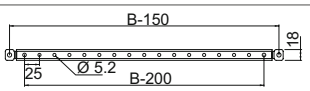

PB500508-43

Characteristics	Folding support tray	Door cross rails	Floor-standing door retainer		
	■ Adjustable horizontal support for laptop computers, documents or any other elements. ■ Mounting on the door reinforcement frame. ■ It can also be mounted on door cross-rails. ■ Height adjustable in steps of 25 mm. ■ In 1000-mm-wide enclosures, any size can be mounted using door cross-rail ref. **NSYSDCR10**. ■ 4 positions: 45°, 60°, 75° and 90°.	■ Direct mounting cross rails on the profiles of the reinforcement frame of the door. ■ Adjustable height with a pitch of 25 mm.	■ Door blocker at the opening limit. ■ It is fixed directly to the front frame of the enclosure and to the reinforcement frame of the door. ■ It can be installed on doors that open both to the right and to the left.		
Material	Steel	Galvanised steel	-		
Finish	Painted with epoxy-polyester resin	-	-		
Colour	RAL 7035 grey	-	-		
Thickness	15/10e mm	20/10e mm	-		
Maximum load	30 kg	-	-		
Supply	1 folding support tray and fixing elements	2 cross rails and bag of fixings	Door stop and fixing elements		
Dimensions (mm)	**References**				
Width (B)					
400	-	**NSYSDCR4**	-		
500	**NSYSDT5**	**NSYSDCR5**	-		
600	**NSYSDT6**	**NSYSDCR6**	-		
800	**NSYSDT8**	**NSYSDCR8**	-		
1000	-	**NSYSDCR10**	-		
Door stop model			**For enclosures**	**Limit**	**References**
Mechanical	-	-	Spacial SF	90° and 120°	**NSYSFMDR**
	-	-	Spacial SM	90°	**NSYSMDR**
Pneumatic	-	-	Spacial SF	120°	**NSYSFNDR**
	-	-	Spacial SM	90° and 120°	**NSYSMNDR***

DB300223-34



DB300440EN-39



** Compatible with SFX.*

Door accessories

Door accessories for wall-mounting enclosures

S3D

PB500223-45



S3D

PB500993-40



Characteristics	Wall-mounting door retainer	
	Steel	**Polyamide**
	To block the door in the open position. ■ It is installed on enclosures with heights from 400 mm and widths from 300 mm. ■ Door opening angle: 120°. ■ Earthing connection of the enclosure by means of the reinforcement rail. ■ Earthing accessories supplied with the enclosure (earth-connection wire to be ordered separately), see page 300. ■ Warning: cannot be installed on 19" mounting plates or on enclosures equipped with internal door.	To block the door in the open position. ■ It is installed on the perforated rails of the enclosure doors at the required height. ■ It is only installed on enclosures with a height of less than 400 mm (no perforated rails).
Material	Steel	Polyamide 6 (PA6)
References		
	NSYAEDRSCST	**NSYAEDRS3DPA6**

Door accessories
Windows







Characteristics	Window for modular equipment								Plastic window
	They provide viewing and access to the inside of the enclosure while keeping the IP65 protection degree.								Plastic window with hinged cover for installation on front panel. ■ External dimensions: 213 x 133 mm. ■ Internal dimensions of the window: 180 x 78 mm.
Material	Transparent polycarbonate								■ Cover: polycarbonate ■ Body: PVC
Ingress protection rating	IP65								IP55
Supply	1 window								1 plastic window delivered with a drilling template
	N.° of modules	**Fig. n.°**	**A**	**B**	**C**		**References**		**Reference**
					Low cover	**High cover**	**Low cover**	**High cover**	
	2	1	78	60	15	25	**NSYVA272M**	**NSYVA272MA**	**NSYMW10M**
	4	1	78	95	15	25	**NSYVA274M**	**NSYVA274MA**	
	6	1	78	130	15	25	**NSYVA276M**	**NSYVA276MA**	
	8	1	78	165	15	25	**NSYVA278M**	**NSYVA278MA**	
	10	1	78	200	15	25	**NSYVA2710M**	**NSYVA2710MA**	
	12	1	78	235	15	25	**NSYVA2712M**	**NSYVA2712MA**	
	16	2	195	165	13	-	**NSYVA2716M**	-	
	24*	2	196	235	13	-	**NSYVA2724M**	-	

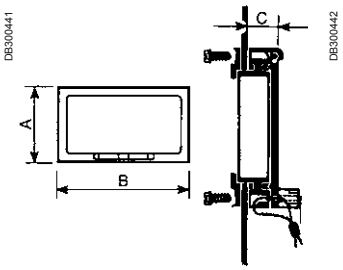


Fig. 1

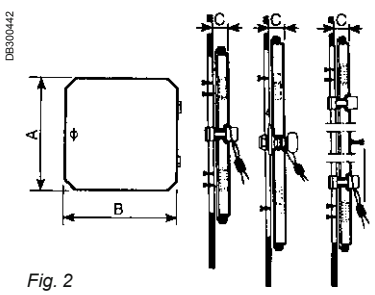
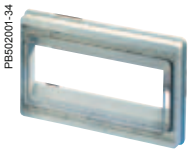


Fig. 2

** In rows of 12 modules mounted vertically.*

Door accessories
Windows


PB502001-34


PB502728-24

	Plastic window for modular equipment	Control window
	Frame with transparent hinged cover for mounting modular switchgear on the front panel. Opening: 46 x 180 mm (10 modules).	■ To prevent accidental handling of the control units by any unauthorised person. ■ Allows all the displayed information to be read without opening the door. ■ Equipped with hinges for opening (180°). ■ Closure by a n° 2233X lock. ■ Indoor and outdoor installation.
	-	Aluminium frame and 3-mm acrylic window
	IP55	IP55
	1 modular front panel	1 window, fixings and instruction sheet

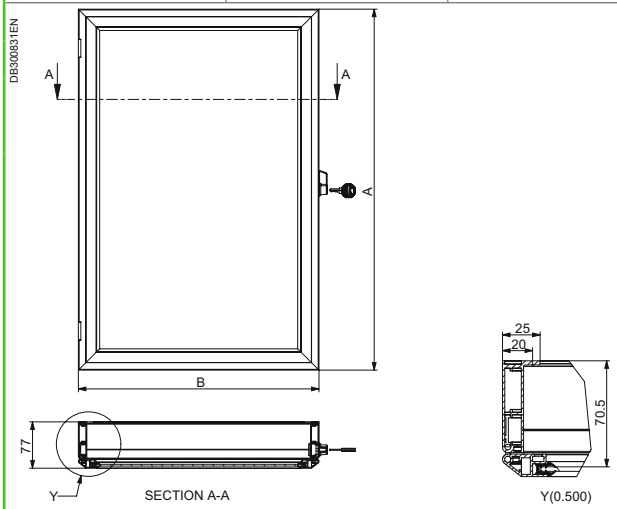
Reference	Dimensions (mm)		References
	A	B	
NSYMW10MK	300	300	NSYCW33
	400	400	NSYCW44
		500	NSYCW45
		600	NSYCW46
	500	400	NSYCW54
		500	NSYCW55
		600	NSYCW56
	600	500	NSYCW65
		600	NSYCW66
	800	600	NSYCW86



Kit for fixing the switchgear

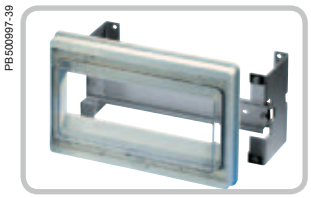
■ The unit is delivered assembled.
■ **Supply:** 1 DIN rail and two supports.

Reference
NSYMW10MR



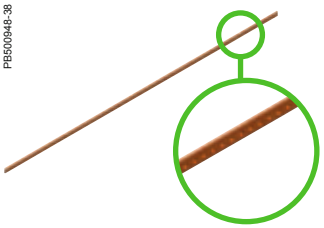
Nota: there are 2 fixing screws for the reference NSYCW86 with 1 without locking

Mounting example


PB500997-39

NSYMW10MK + NSYMW10MR.

Other accessories
Earthing accessories

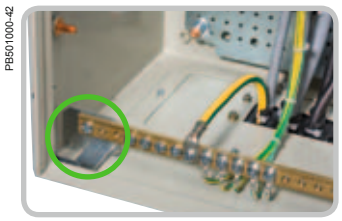


SM SF SD SMX SFX SDX



Characteristics	Earthing strip	Central earthing point
	■ Perforated brass bar, 15 x 3 mm. ■ 1 m long. ■ 87 connection points, M5 drill holes.	■ Connects earthing braids and cables to the structure of the enclosure. ■ The earth connection is made by means of the M8 x 18 mm bolt.
Fixing	-	Fixing to the structure by means of self-tapping screws
Supply	1 earthing strip and fixing elements	1 central earthing point, elements for fixing to the structure, and fixings for fixing to the bolt
References		
	NSYECB1M153	**NSYCEP**

S3D S3X

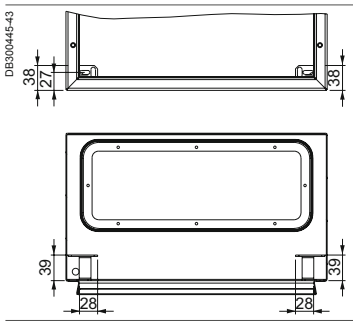


Fixing lugs for the earthing strip

■ They allow the mounting of an earth-collector rail or a DIN rail at the top and bottom of an enclosure.
■ Mounting incompatible with certain accessories. Please consult us.
■ **Fixing:** on holes made in the gutter of the enclosure.
■ **Supply:** 2 lugs and fixings.

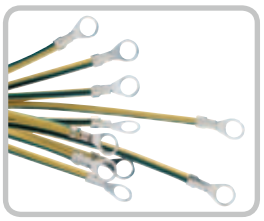
Reference

NSYEDCOS



Other accessories
Earthing and paint accessories


PB500084-42


PB500217-32

Characteristics				Earth braids	Earth cables
				Guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.	Make it easier to install a safe earth connection, with a perfect contact, with optimised length.
Material				Tinned copper	Brass and copper alloy terminal, green and yellow PVC insulating sheath
Supply				10 earth braids (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)	10 earth cables (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)
Length (mm)	**Width (mm)**	**Section (mm^2)**	**Terminal Ø (mm)**	**References**	
130	-	6	6.4	-	**NSYEL136D6**
150	12	6	6.5	**NSYEB156D6**	-
	17	10	6.5	**NSYEB1510D6**	-
155	17	16	8.5	**NSYEB1516D8**	-
160	-	6	6.4	-	**NSYEL166D6**
	-	6	8.3	-	**NSYEL166D8**
170	-	10	6.4	-	**NSYEL1710D6**
200	27	25	8.5	**NSYEB2025D8**	-
	33	50	8.5	**NSYEB2050D8**	-
220	-	6	6.4	-	**NSYEL226D6**
	-	25	8.3	-	**NSYEL2225D8**
250	-	10	6.4	-	**NSYEL2510D6**
350	-	25	8.3	-	**NSYEL3525D8**


PB500221-19


PB501003-37

Characteristics	Aerosol paint can	Paint touch-up
	■ Air-drying paint. ■ Content: 150 g.	■ Paint for touching up with a brush. ■ Air-drying paint.
Colour	**References**	
RAL 7032	**NSYBPA7032**	**NSYTUP7032**
RAL 7035	**NSYBPA7035**	**NSYTUP7035**

Applicative and customised solutions

Applicative and customised solutions
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New 474
Variable speed drive flush-mounting kits

Automobile applications 478

The customised solutions 480

Prisma functional system
Introduction

The Prisma functional system can be used for all types of low-voltage distribution switchboards up to 4000 A, in commercial and industrial environments.

PB502719_50



PB502720_72



Switchboard design is very simple



① **A metal structure**
made up of one or more frameworks combined side-by-side or back-to-back.

② **A distribution system**
positioned in a lateral compartment or at the rear of the cubicle are used to distribute electricity throughout the switchboard.

③ **Complete functional units**
- dedicated mounting plate for device installation
- front plate to block direct access to live parts
- devices for on-site connections.

The functional units are modular and are arranged rationally, one on top of another, within the enclosure.
The components of the Spacial SFP and those of the functional units in particular have been designed and tested taking into account device characteristics.
This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.

Advantages of Prisma system switchboards



① **A safe electrical installation**
The total compatibility of Schneider Electric devices with the Prisma system is a key advantage in ensuring a high level of installation dependability.

② **An upgradeable electrical installation**
Thanks to modular design, Spacial SFP switchboards can be modified easily to integrate new functional units as needed.

③ **Total safety for personnel**
Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations. To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible. Additional internal protection (partitions, barriers) is available to create form 2, form 3 and form 4 separation to protect against direct contacts with live parts.
Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in Prisma system enclosures.

Prisma functional system
Introduction

Use of the components in the Prisma functional system ensures the creation of switchboards complying with standards IEC 50298, IEC 61439-1&2.



Electrical characteristics

- Rated insulation level of main busbars: 1000 V.
- Rated operational current Ie: 4000 A.
- Rated peak withstand current Ipk: 220 kÂ.
- Rated short-time withstand current Icw: 100 kA rms/1 second.
- Frequency: 50/60 Hz.

Mechanical characteristics

- Steel sheet metal.
- Textured finish with epoxy-polyester powder.
- Grey colour RAL 7035.
- Can be dismantled.
- Can be combined side-by-side and back-to-back.
- Degree of protection: IP55 according to IEC 60529.
- Degree of protection against mechanical impacts: IK10 (IK08 for the glazed-door).
- Framework dimensions:
  - two widths:
    - W 300: cable compartment
    - W 700: device compartment or cable compartment
  - three depths:
    - D500 up to 1600 A with incoming Masterpact NT only
    - D600 up to 1600 A with incoming Masterpact NT only. Possibility to connect with cables from rear
    - D800 up to 4000 A with incoming Masterpact NT or NW. Possibility to connect to cables from rear or to connect to rear vertical busbars
  - height: 2000 mm
- Enclosures for indoor installation.

Electrical switchboards built using the Prisma functional system and Schneider Electric recommendations fully comply with international standard IEC 61439-1&2.

Prisma functional system
Introduction

The forms according to IEC 61439-1&2

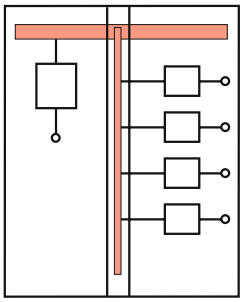
Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.



In most installations, Spacial SFP cubicles do not require partitioning.
In this case, the switchboard is a Form 1.
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.
The protection of life and property is a standard feature due to:
- front plates that require a tool to be removed
- keylocks on doors, some of which provide access to live parts
- the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors
- covering of the upstream and downstream terminals on the incoming device so that operators are perfectly safe at all points in the switchboard when the incoming device is off (open).

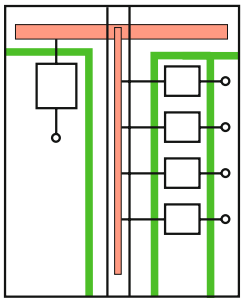
What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards. Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-1&2.

Form 1



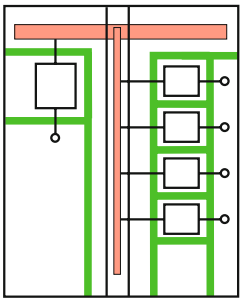
In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

Form 2b



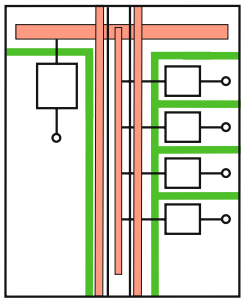
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b



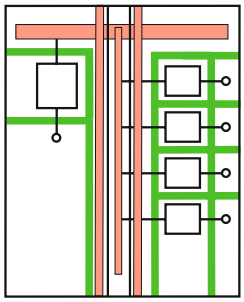
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Prisma functional system
Introduction

Upgradeable Prisma functional units
Functional units include switchgear mounting plates, front plates, connection supports, barriers…

Masterpact
NW08 to NW40



Masterpact
NT06 to NT16



Compact NSX
up to 630 A



Compact NS
from 630b to 1600 A



Compact NS
up to 3200 A



Easypact
from 100 to 630 A



Compact INS-INV250-630 A



Compact INS-INV630-2500 A

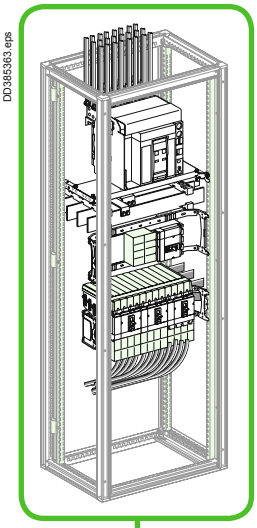


Source changeover systems
Compact/Masterpact



Source changeover
systems Compact INS





Fupact
from 32 to 1250 A



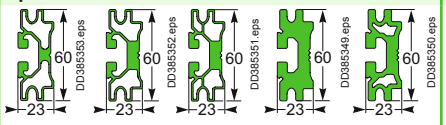
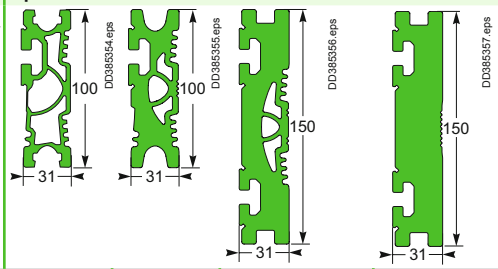
Multi 9 - Acti 9

Accessories

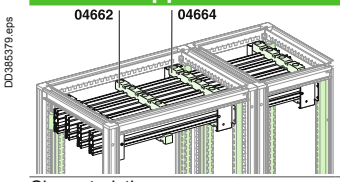
For more informations, see the catalogue Prisma P DESW016EN.

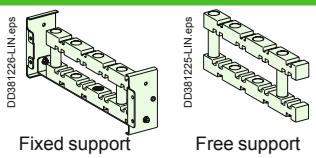
Prisma functional system
Power busbars

Linergy LGYE - Horizontal profiles up to 4000 A

Installation in Spacial SFP		Up to 1600 A					Up to 4000 A			
Linergy profile, 2000 mm length										
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ⩽ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350
Number of profiles per phase		1								
Total number of vertical modules (50 mm)		3					3		4	
Cat. no.		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**

Busbar supports



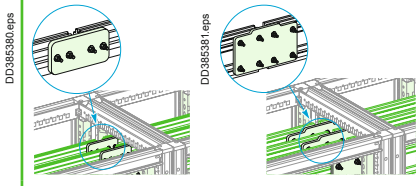
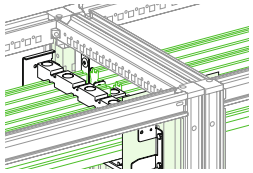


Fixed support **04664**

Free support **04662**

Characteristics			2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.							
In cubicle: W700 Busbar supports 75 mm distance between	Number of supports depending on Icw (kA rms/1 s)	⩽ 15	2							
		⩽ 25	2							
		⩽ 30	2							
		⩽ 40	-	2						
		⩽ 50	-		2					
		⩽ 60	-		2+1		2			
		⩽ 65	-			2+1				
		⩽ 75	-			2+1				
		⩽ 85	-			2+1				
		⩽ 100	-				2+2			
Cat. no.	Fixed support		**04664**				**04664** + **04671** (order 1 per support)		**04664** + **04646** (sold in lots of 12 spacers)	
Cat. no.	Free support		**04662**				**04662** + **04671** (order 1 per support)		**04662** + **04646** (sold in lots of 12 spacers)	
In duct: W300 Busbar supports 75 mm distance between	Number of supports depending on Icw (kA rms/1 s)	⩽ 15	1							
		⩽ 25	1							
		⩽ 30	1							
		⩽ 40	1							
		⩽ 50	1							
		⩽ 60	1							
		⩽ 65	1 + 1							
		⩽ 75	1 + 1							
		⩽ 85	1 + 1							
		⩽ 100	-				1 + 1			
Cat. no.	Fixed support		**04664**				**04664** + **04671** (order 1 per support)		**04664** + **04646** (sold in lots of 12 spacers)	
Cat. no.	Free support		**04662**				**04662** + **04671** (order 1 per support)		**04662** + **04646** (sold in lots of 12 spacers)	

Joints

	Up to 1600 A					Up to 4000 A			
	630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
									
	04620		**04623**			**04624**			
Cat. no.	3 x **04620** (3P) 4 x **04620** + **04624** (4P)					3 x **04621** (3P) 4 x **04621** + **04624** (4P)		3 x **04623** (3P) 4 x **04623** + **04624** (4P)	
Note	Reference **04624** is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.								

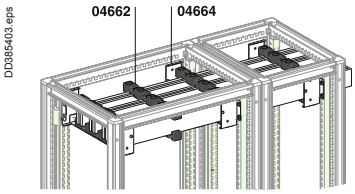
Note: for accessories, see page 321.

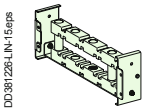
Prisma functional system
Power busbars

Linergy BS - Horizontal flat busbars up to 4000 A

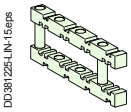
Installation in Spacial SFP		Up to 1600 A				Up to 4000 A					
Copper bar, 2000 mm length											
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A
	IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A	2900 A	3340 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of busbars per phase		1	1	2	2	1	2	2	2	2	2
Total number of vertical modules (50 mm)		3									4
Cat. no.		**04536**	**04538**	**04536**	**04538**	**04548**	**04545**	**04546**	**04548**	**04550**	**04552**

Busbar supports





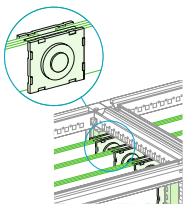
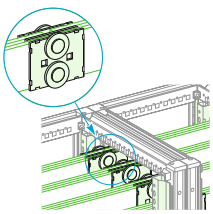
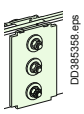
Fixed support **04664**



Free support **04662**

In cubicle: W700 with 75 mm distance between bars	Characteristics		2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.								
	Number of supports depending on Icw (kA rms/1 s)	≤ 15	2								
		≤ 25	2+1	2							
		≤ 30	2+1		2						
		≤ 40	2+1			2					
		≤ 50	-	2+1				2			
		≤ 60	-			2+1					
		≤ 65	-			2+1					
		≤ 75	-			2+2	2+1				
		≤ 85	-			-		2+1			
	Cat. no.	Fixed support	**04664**			**04664**			**04664 + 04671**		
		Free support	**04662**			**04662**			**04662 + 04671**		
In duct: W300 with 75 mm distance between bars	Number depending on Icw (kA rms/1 s)	≤ 30	1								
		≤ 50	1+1			1					
		≤ 85	-			2					
	Cat. no. depending on depth	Fixed support	**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800)			**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800)			**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800) + **04671**		
		Free support	**04662**			**04662**			**04662 + 04671**		
In cubicle W700 with 115 mm distance between bars	Number depending on Icw (kA rms/1 s)	≤ 30	-			2					
		≤ 40				2+1		2			
		≤ 60				2+1					
		≤ 75				2+2		2+1			
		≤ 85				-	2+2	2+1			
	Cat. no.	Fixed support				**NSYBHS800L**			**NSYBHS800L + 04671**		
		Free support				**04678**			**04678 + 04671**		
In duct W300 with 115 mm distance between bars	Number depending on Icw	≤ 50	-			1					
		≤ 85				2					
	Cat. no.	Fixed support				**NSYBHS800L**			**NSYBHS800L + 04671**		
		Free support				**04678**			**04678 + 04671**		

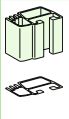
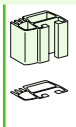
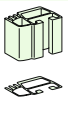
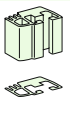
Joints

Installation in Spacial SFP		Up to 1600 A				Up to 4000 A					
		1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with self-breaking lock nut		**04640**			**04641**						
											
Cat. no.		**04640**	**04641**	**04640**	**04641**	**04641**	**04640**	**04640**	**04641**	**04641**	**04643**

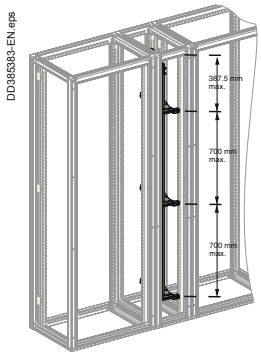
Note: *When installed at the bottom of a cubicle, the busbar must be partitioned.*

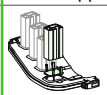
Prisma functional system
Power busbars

Linergy LGY - Lateral profiles up to 1600 A

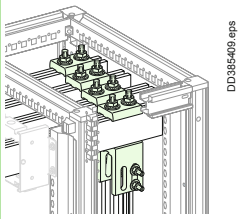
		Up to 1600 A (single busbar)				
In Spacial SFP duct		**W300**				
Linergy profile, 1670 mm length						
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		**04502**	**04503**	**04504**	**04505**	**04506**

Busbar supports



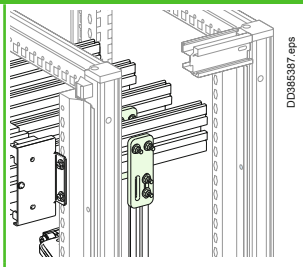
		 Fixed support **04651**	
Characteristics			An end stop must be fitted on the bottom support: **01109** (sold in lots of 12)
Number depending on Icw (kA rms/1 s)	≤ 25	3	
	≤ 30	-	3
	≤ 40	-	3
	≤ 50	-	4
	≤ 60	-	5
	≤ 65	-	5
	≤ 75	-	7
	≤ 85	-	8
Cat. no.		**04651** (set of 2 upright adapters **NSYSFPA** for installation in Spacial SFP cubicle)	

Connections to the Linergy BS horizontal busbar



Characteristics			Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick		**04634**	**04635**
	10 mm thick	Width ≤ 80 mm	**04636**	
		Width > 80 mm	**04636** + **04642** **04638** + **04642**	

Connections to the Linergy LGYE horizontal busbar

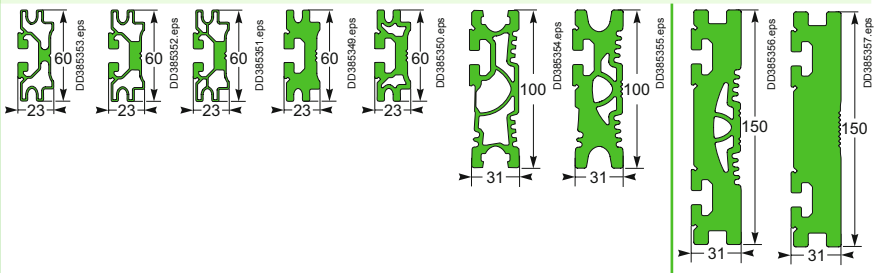


	≤ 1600 A
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
Cat. no.	**04602** (vertical connection) **04603** (vertical shifted connection) (1)

(1) Dedicated connection 04603 for Linergy LGYE busbar in 150 mm duct with horizontal jointing.

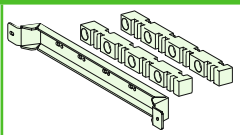
Prisma functional system
Power busbars

Linergy LGYE - Lateral profiles up to 4000 A

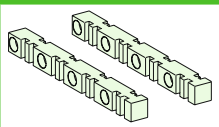
		Up to 4000 A							
In Spacial SFP duct		**W300**							
Linergy profile, 2000 mm length									
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3620
	IP > 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3350
Length to cut for side mounting		1675 mm							1625 mm	
Number of profiles per phase		1								
Cat. no.		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**

Busbar supports

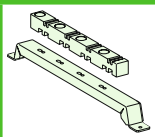




Fixed support **NSYBVS500**



Free support **04662**

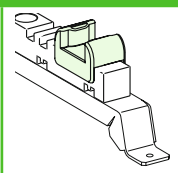


Bottom support **NSYAS500**

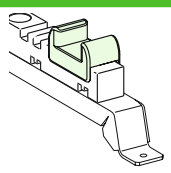
Characteristics		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).	
Number depending on Icw (kA rms/1 s)	≤ 30	3	
	≤ 40	-	3+2 / 3
	≤ 50	-	3+2 / 3
	≤ 60	-	3+2 / 3
	≤ 65	-	3+2
	≤ 75	-	3+4 / 3+2
	≤ 85	-	3+4
	≤ 100	-	3+6
Cat. no. of supports depending on distance between bars and duct depth	Spacial SFP duct 75 mm distance between bars – W300, D500	**NSYBVS500** (fixed) + **04662** (free) + **NSYAS500** (spacer) (1)	
	W300, D600	**NSYBVS600** (fixed) + **04662** (free) + **NSYAS600** (spacer) (1)	
	W300, D800	**NSYBVS800** (fixed) + **04662** (free) + **NSYAS800** (spacer) (1)	
	Spacial SFP duct 115 mm distance between bars – W300, D800	**NSYBVS800L** (fixed) + **04678** (free) + **NSYAS800L** (spacer) (1)	

*(1) If using a 100 x 10 bars, add a pack of screws ref. **04671** for each fixed support and free support.*

Wedging busbars in position



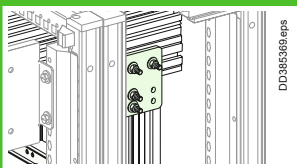
Wedge fitted on bottom support **04658**



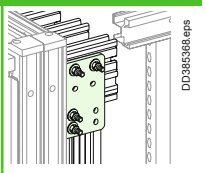
Wedge fitted on bottom support **04659**

Characteristics		The bottom support is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.	
Cat. no.	Bottom support	**04663**	**04666 + 04661**
	Wedge	**04658**	**04659**

Connections to the Linergy LGYE horizontal busbar



2000/2500 A

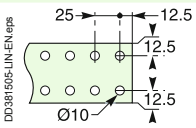


3200/4000 A

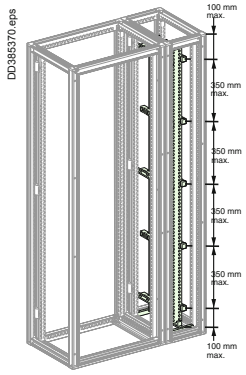
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no.	**04604** (short connection) **04605** (long connection)	**04607**

Prisma functional system
Power busbars

Linergy BS - Lateral flat busbars up to 3200 A

		Up to 1600 A				Up to 3200 A						
In Spacial SFP duct		**W300 D500/600/800**				**W300 D500/600/800**						
Pre-slotted copper, 1675 mm length												
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of busbars per phase		1		2		1			2			
Cat. no.		**04516**	**04518**	**04516**	**04518**	**04525**	**04526**	**04528**	**04525**	**04526**	**04528**	**04550** (1)

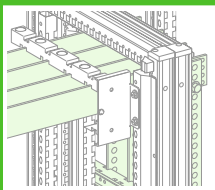
Busbar supports

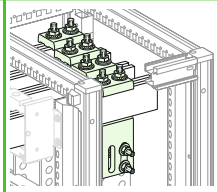


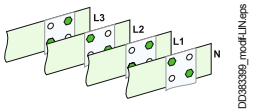
Description			3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.
Number of supports depending on Icw (kA rms/1 s)	⩽ 15		3 | 3
	⩽ 25		3+2 | 3 | 3
	⩽ 30		3+2 | 3+2 | 3
	⩽ 40		3+4 | 3+2 | 3+2
	⩽ 50		3+4 | 3+2
	⩽ 60		3+4 | 3+2
	⩽ 65		3+4 | 3+2
	⩽ 75		3+6 | 3+4
	⩽ 85		3+4
Cat. no. of supports depending on distance between bars and duct depth	Spacial SFP duct 75 mm distance between bars	W300, D500	**NSYBVS500** (fixed) + **04662** (free) + **NSYAS500** (spacer) (2)
		W300, D600	**NSYBVS600** (fixed) + **04662** (free) + **NSYAS600** (spacer) (2)
		W300, D800	**NSYBVS800** (fixed) + **04662** (free) + **NSYAS800** (spacer) (2)
	Spacial SFP duct 115 mm distance between bars	W300, D800	**NSYBVS800L** (fixed) + **04678** (free) + **NSYAS800L** (spacer) (2)

(1) Copper bar without holes.
*(2) If using a 100 x 10 bars, add a pack of screws ref. **04671** for each fixed support and free support.*

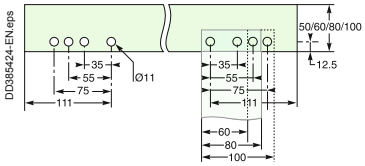
Connections to the Linergy BS horizontal busbar



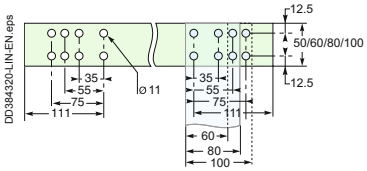


Characteristics		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(3) 				References **04636**, **04637, 04638** are supplied individually: 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
		1 vertical bar per phase		2 vertical bars per phase		1 vertical bar per phase			2 vertical bars per phase			
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Cat. no. of the connection piece depending on horizontal busbar size	⩽ 80 mm	**04645**				**04636**		**04637**	**04637**			**04645**
	> 80 mm	**04645**				**04636 + 04642**		**04637 + 04642**	**04637 + 04642 04638 + 04642**			**04645**

(3) Drill hole dimensions for 5 mm thick horizontal busbars.

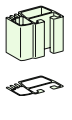
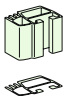
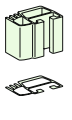
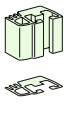


Drill hole dimensions for 10 mm thick horizontal busbars.

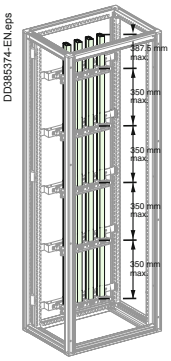


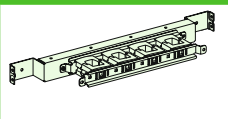
Prisma functional system
Power busbars

Linergy LGYE - Rear profiles up to 1600 A

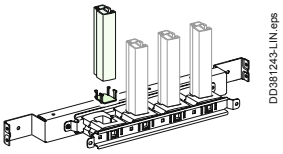
		Up to 1600 A				
At the rear of a Spacial SFP cubicle		**W700**				
Linergy profile, 1670 mm length		 DD381233-LIN-7.eps	 DD381234-LIN-7.eps	 DD381235-LIN-7.eps	 DD381236-LIN-7.eps	 DD381237-LIN_7.eps
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		**04502**	**04503**	**04504**	**04505**	**04506**

Busbar supports

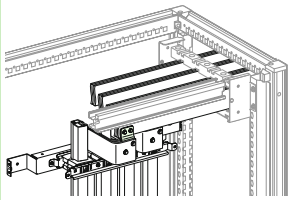

DD385374-EN.eps


DD381242-LIN.eps

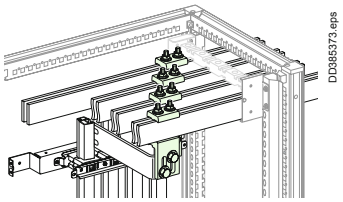
Fixed support **04652**

Number depending on Icw (kA rms/1 s)	≤ 25	3			
	≤ 30		4		
	≤ 40			5	
	≤ 50				7
Characteristics		 DD381243-LIN.eps		An end stop must be fitted on the bottom support **01109** (sold in lots of 12)	
Cat. no.		**04652**			

Connections to the Linergy BS horizontal flat busbar


DD385372.eps

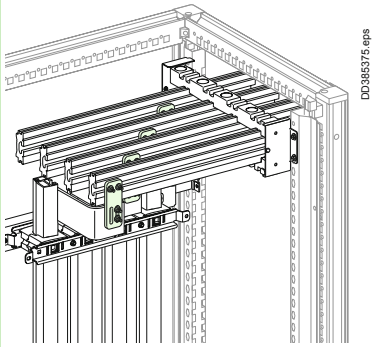
04635 connection to 5 mm thick horizontal busbar


DD385373.eps

04636 connection to 10 mm thick horizontal busbar

Characteristics			Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no. according to horizontal busbar size	5 mm thick		**04635**
	10 mm thick	Width ≤ 80 mm	**04636**
		Width > 80 mm	**04636 + 04642**

Connections to the Linergy LGYE horizontal flat busbar

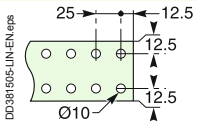

DD385375.eps

04602 connection to the Linergy LGYE horizontal flat busbar

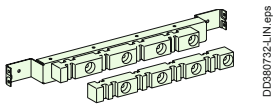
Characteristics	Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no.	**04602**

Prisma functional system
Power busbars

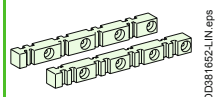
Linergy LGYE - Rear flat busbars up to 1600 A

		Up to 1600 A					
At the rear of a Spacial SFP cubicle		**W700**					
Pre-slotted copper, 1670 mm length							
		800 A	**1000 A**	**1400 A**	**1000 A**	**1200 A**	**1600 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ⩽ 31	800 A	1000 A	1400 A	-	-	-
	IP > 31	750 A	900 A	1250 A	1080 A	1250 A	1600 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2	1		
Cat. no.		**04516**	**04518**	**04516**	**04525**	**04526**	**04528**

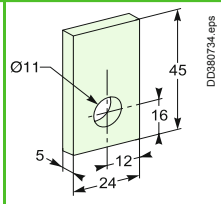
Busbar supports



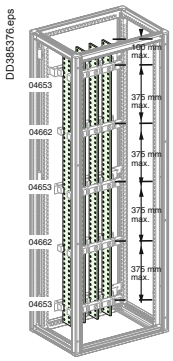
Fixed busbar support **04653**



Busbar free support **04662**

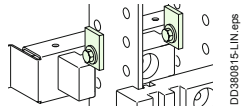


Mounting chocks **04669**

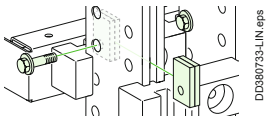


Characteristics

3 fixed supports ref. 04653 are compulsory to keep the busbar vertical.
If more than 3 supports are needed, use free support ref. 04662 (in addition).
Metal shim ref. 04669 (sold in lots of 100), 5 mm thick, is screwed onto the busbar.
It rests on a fixed support and is used to wedge the busbar in position.



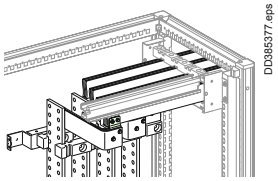
Wedging: 1 busbar/phase



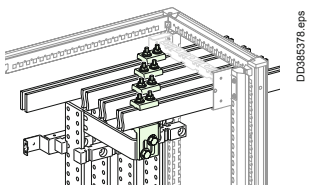
Wedging: 2 busbars/phase

Number depending on Icw (kArms/1 s)	⩽ 15	3				3	
	⩽ 25	3+2				3	
	⩽ 30	3+2				3+2	
	⩽ 40	3+4		3+2		3+2	
	⩽ 50		3+4			3+2	
	⩽ 60					3+4	
	⩽ 65					3+4	
	⩽ 75						3+6
	⩽ 85						
Cat. no.		**04653** (fixed) + **04662** (free) + **04669** (spacer)					

Connections to the Linergy BS horizontal flat busbar



04635 connection to horizontal busbar
5 mm thick



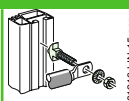
04636 connection to horizontal busbar
10 mm thick

	Characteristics		For part of the connection, flexible insulated busbars are needed. References **04635**, **04636** are supplied individually = 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.
Cat. no. according to horizontal busbar size	5 mm thick		**04635**
	10 mm thick	Width ⩽ 80 mm	**04636** (1)
		Width > 80 mm	**04636** + **04642** (1)

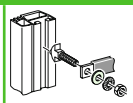
(1) To be made.

Prisma functional system
Power busbars

Linergy LGYE - Accessories



Linergy screw



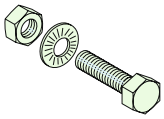
Plain washer



Identification

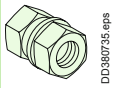
Linergy screw	Characteristics		Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.
	Cat. no.	25 mm length 39 mm length	see the table "Connections on Linergy LGYE & LGY" below
Steel plain washers	Characteristics		M8 sold in lots of 20
	Cat. no.	ext. Ø20 mm	**04772**
		ext. Ø24 mm	**04773**
		ext. Ø28 mm	**04774**
Brass plain washers	Characteristics		M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy
	Cat. no.	ext. Ø20 mm	**04775**
Identification	Characteristics		12 clip-on supports + N, L1, L2, L3, PE, PEN labels
	Cat. no.		**04794**
	Characteristics		Linergy LGYE busbar screw plate kit after sales service
	Cat. no.		**01130**

M8 bolts



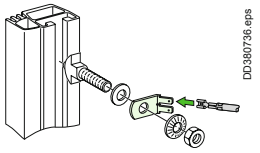
Linergy BS, 20 bolts 8.8 class	Characteristics		Set of 20 bolts + 20 nuts + 40 contact washers.
	Cat. no.	M8 x 20	**04782**
		M8 x 25	**04783**
		M8 x 30	**04784**
		M8 x 35	**04785**
		M8 x 40	**04786**
		M8 x 45	**04787**
		M8 x 50	**04788**

Torque nuts



20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Cat. no.	**04759**

Voltage tap-offs



20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	Cat. no.	**04229**

Connections on Linergy LGYE & LGY

InA (A)		Connection on Linergy	Utilisation	Cat no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Linergy screw	Recommended	**04766**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
800 to 1250	5 mm thick bar	Use the 25 mm Linergy screw	Recommended	**04766**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
		Use the flat plate screw with 2 studs	Possible	**04768**	
1600 to 2500	5 or 10 mm thick bar	Use the flat plate screw with 2 studs	Recommended	**04768**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
3200 to 4000	10 mm thick bar	Use the flat plate screw with 3 studs	Recommended	**04769**	

(1) ***04767*** *is only compatible with Linergy LGY.*

Form 1 partitioning

Presentation

Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.

In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1.

Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

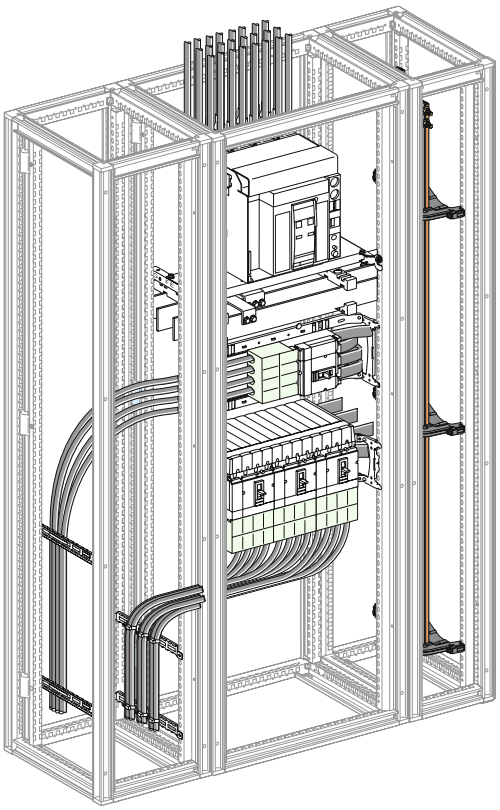
The protection of life and property is a standard feature due to:

> front plates that require a tool to be removed
> keylocks on doors, some of which provide access to live parts
> the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors.

What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a & 4b electrical switchboards.

Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-1 and 2.

DD085393

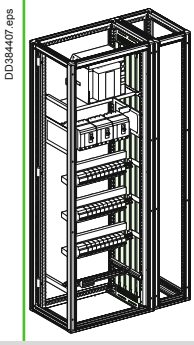
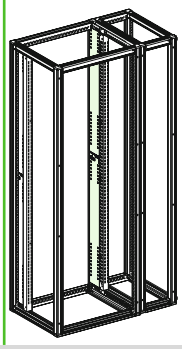
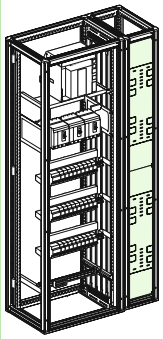
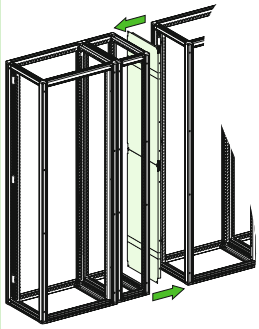
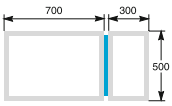
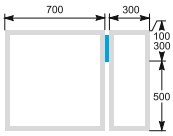
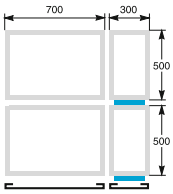
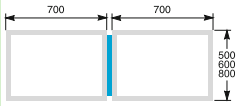


The protection of life and property is ensured by the systematic installation of terminal shields on Compact NSX circuit breakers and on Compact INS and INV switch-disconnectors (see the pages on the functional units).

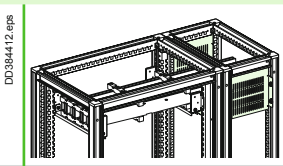
Prisma functional system
Characteristics

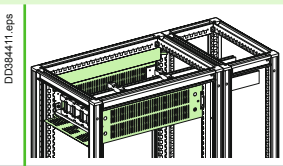
Form 2b partitioning

Separation of busbars from the functional units:
- protection against contact with live parts upstream of the outgoing circuits
- protection against penetration of foreign solid bodies.

	Lateral partitioning	Form 2 restoration for side-barrier cut-out	Partitioning extension	Front and rear barrier	Inter-cubicle partitioning
	 DD384407.eps		 DD384408.eps	 DD384409.eps	 DD384410.eps
Schemes					
	 DD383356.EPS		 DD385542.eps	 DD383360.EPS	 DD385543.eps
Characteristics	■ Vertical barrier made of insulating slats. ■ Can be installed on both sides of Linergy and flat busbars. ■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X compliance with standard IEC 60695.2.1 concerning withstand to fire.	■ This kit enables passage of the connection between a device > 1600 A (NW, INS) and lateral vertical busbars. ■ It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware.	■ For the Spacial SFP system switchboards 600 and 800 mm depth, a partitioning extension is required.	■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends. ■ Rear protection, a barrier is required at the rear of the busbar compartment in cubicles that are 800, 1000 and 1300 mm deep.	■ Metal partition, used to separate two adjacent cubicles. ■ It is made up of two panels, each 850 mm high. ■ The top and bottom ends have knock-outs for horizontal busbars. ■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.
Referencias	**06545**	**04924**	D600: **06541** D800: **06543**	**06540**	D500: **06555** D600: **06555** + **06541** D800: **06555** + **06543**

Partitioning of horizontal busbars

 DD384412.eps

 DD384411.eps

	W300			W700		
Designation	■ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard. ■ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle. ■ The space required for the busbars is not increased.					
For Depth	D500	D600	D800	D500	D600	D800
Cat. no. for 3M busbar	**06560**	**06561**	**06563**	**06570**	**06570**	**06570**
Cat. no. for 4M busbar	**06568**	**06568**	**06568**	**06567**	**06567**	**06567**

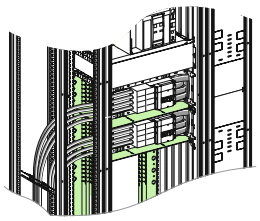
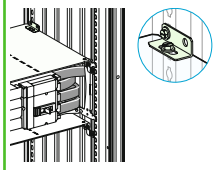
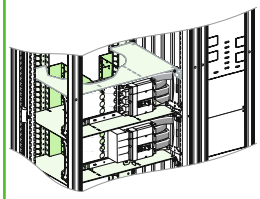
Note: *when the busbars are at the bottom of the cubicle, gland plates are mandatory.*

Prisma functional system
Characteristics

Form 3b partitioning

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.

- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

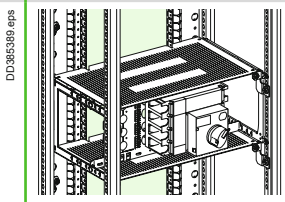
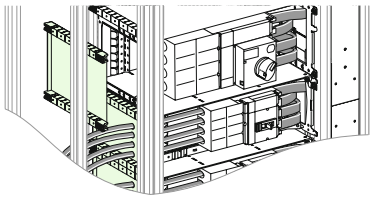
	Front connection			Rear connection	
	DD384420.eps 		DD384422.eps 	DD384421.eps 	
	Horizontal metal partition, W650 mm	**Rear support for partitions, W650 mm**	**6 universal angle brackets**	**Rear connection**	
Characteristics	■ A horizontal metal partition can be used to physically separate functional units from one another.	■ It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks).	■ A set of brackets can be used to install partial Form 3 partitioning in the cubicle. ■ It does not take up any useful space in the switchboard.	■ Vertical partitions (two cat. no. per functional unit)	
				3 to 4 modules	5 to 6 modules
Cat. no.	**04901**	**04943**	**03583**	**04955**	**04956**

Prisma functional system
Characteristics

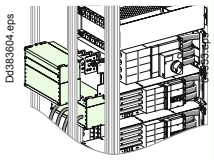
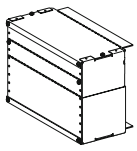
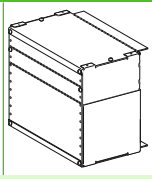
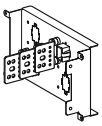
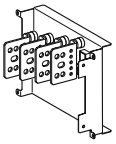
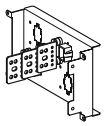
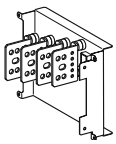
Form 4 partitioning

■ Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit.
■ Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
■ Form 4a: terminal for external conductors in the same compartment as the associated.
■ Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Form 4a partition

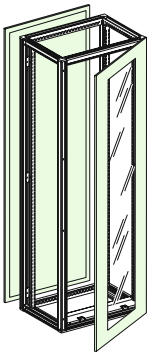
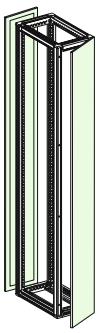
	For front connection			
	 DD385389.eps		 Dd383603.eps	
	Form 4a backplate (one cat. no. per cubicle)		**Form 4a gland plate**	
Characteristics	■ a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks.		■ a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.	
			3 or 4 modules	5 or 6 modules
Cat. no.	**04946**		**04951**	**04952**

Form 4b partition

	 Dd383604.eps	 04954.eps	 06606.eps		 06607.eps	 06604.eps	 06605.eps	
				Connection transfer assembly, 3 to 5 modules, 250 A		**Connection transfer assembly, 4 to 6 modules, 630 A**		
Characteristics	■ a cover with metallic gland plates that can be easily cut out on the side and bottom. It is available in two heights:			■ transfert assembly without connection to simplyfied the cable installation.		■ transfert assembly without connection to simplyfied the cable installation.		
	3 to 5 modules	4 to 6 modules		3P	4P	3P	4P	
Cat. no.	**06600**	**06601**		**06606**	**06607**	**06604**	**06605**	

Prisma functional system
Selection guide

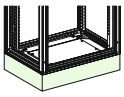
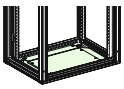
Common characteristics
- ■ Roof characteristics:
- □ equipped with a factory-mounted polyurethane (PUR) gasket
- □ supplied with mounting hardware
- □ with markings for clear identification of cable-running zones
- ■ The cables compartment can be mounted on the right or left.
- ■ Can be combined side-by-side or back-to-back.
- ■ Receive the IP55 cover panels.

Mounting	W700			W300		
	 DD385545.eps			 DD385546.eps		
Depth	**D500**	**D600**	**D800**	**D500** (1)	**D600** (1)	**D800** (1)
Assembled enclosures H2000 Plain door	**NSYSFP20750**	**NSYSFP20760**	**NSYSFP20780**	**NSYSF20350**	**NSYSF20360**	**NSYSF20380**
Assembled enclosures H2000 Glazed door	**NSYSFP20750T**	**NSYSFP20760T**	**NSYSFP20780T**	-	-	-
Adapter uprights for busbar installation in vertical on Linergy LGY  06502.eps	-	-	-	**NSYSFPA**	**NSYSFPA + NSYSUCR40200**	**NSYSFPA + NSYSUCR40200**
Side panel (Set of 2) (2)  DD384425.eps	**NSY2SP205**	**NSY2SP206**	**NSY2SP208**	**NSY2SP205**	**NSY2SP206**	**NSY2SP208**
Hinged front plate support frame (3)  DD381324.eps	**08566**	**08566**	**08566**	-	-	-

(1) For cables and to install Linergy LGYE, BS busbar.
(2) An earthing braid must be installed between the lateral panels and the frame.
(3) Reversible for left or right-hand opening.

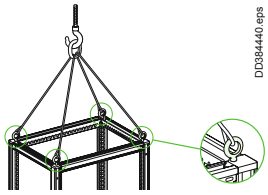
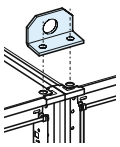
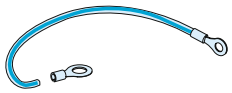
Prisma functional system
Selection guide

Accessories

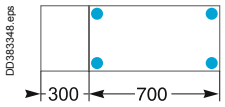
Width			W700			W300		
Depth			D500	D600	D800	D500	D600	D800
 DD384428.eps	Plinth H100 (1)	Front and rear cross-pieces	NSYSPF7100	NSYSPF7100	NSYSPF7100	NSYSPF3100	NSYSPF3100	NSYSPF3100
		Lateral cross-pieces	NSYSPS5100	NSYSPS6100	NSYSPS8100	NSYSPS5100	NSYSPS6100	NSYSPS8100
	Plinth H200 (1)	Front and rear cross-pieces	NSYSPF7200	NSYSPF7200	NSYSPF7200	NSYSPF3200	NSYSPF3200	NSYSPF3200
		Lateral cross-pieces	NSYSPS5200	NSYSPS6200	NSYSPS8200	NSYSPS5200	NSYSPS6200	NSYSPS8200
 DD384427.eps	1 entrie gland-plates		NSYEC751	NSYEC761	NSYEC781	NSYEC351	NSYEC651	NSYEC381

(1) The plinth is made up of two catalogue numbers: front and rear cross-pieces + lateral cross-pieces.

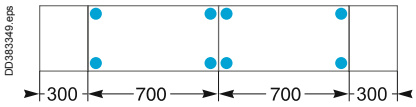
Other accessories

	 DD385544.eps	 DD384440.eps	 NSYFELB.eps		 DD384368.eps	 UE_1_11_2R.eps
	Coupling kit	**4 lifting rings**	**4 lifting brackets**	**Set of 20 screws + M6 nuts**	**Earthing wire, 6 mm²**	**Earthing braid (3)**
Description	■ side-by-side combination ■ back-to-back combination (2): - D500+D500 - D800+D500	■ Use a set of lifting rings for each framework (4) (W700 mm) containing devices.	■ When two cubicles with devices have been combined, use a lifting beam.		The wire is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. The earthing wire is used to earth: ■ a door or wicket door with devices ■ a front-plate support frame equipped with switchgear in a cubicle.	■ For NSYEL166D8: Length 160 mm, Section 6 mm², Terminal 8.3 mm. ■ For NSYEL3525D8: Length 350 mm, Section 25 mm², Terminal 8.3 mm.
Cat. No.	**NSYSFBK19**	**NSYSFEB**	**NSYSFELB**	**06461**	**08911**	**NSYEL166D8 / NSYEL3525D8**

(2) Back to back association must be shipped individually and combined during on-site installation.
(3) An earthing braid must be installed between the roof and the frame.
(4) For one framework



For two frameworks

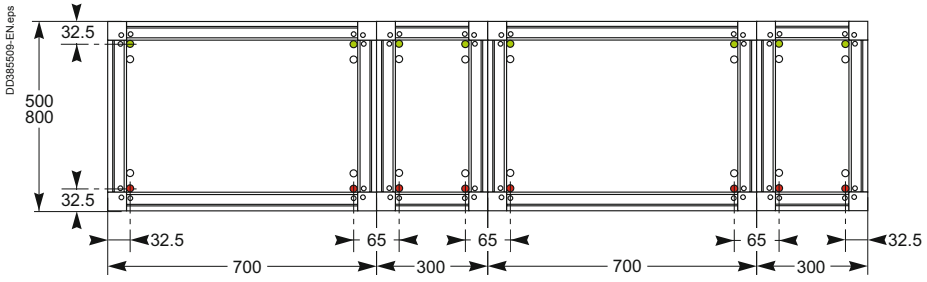


Seismic application 3G withstand					
		1600 A configuration (1)		3200 A configuration	
		Spacial SFP	Busbar duct	Spacial SFP	Busbar duct
Nominal dimensions	Height	2000	2000	2000	2000
	Width	700	300	700	300
	Depth	500	500	800	800
Additional dummy load (kg)		350	350	450	450
Seismic plinth H100 mm - Cat. no.		**NSYS5GPC75**	**NSYS5GPC35**	**NSYS5GPC78**	**NSYS5GPC38**

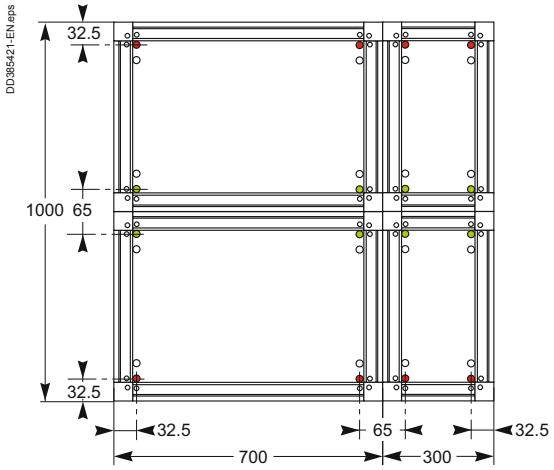
Note: incoming by pre-frabricated busbar truncking is forbidden for seismic application.
(1) Not compatible for depth 600 mm.

Ground fastening

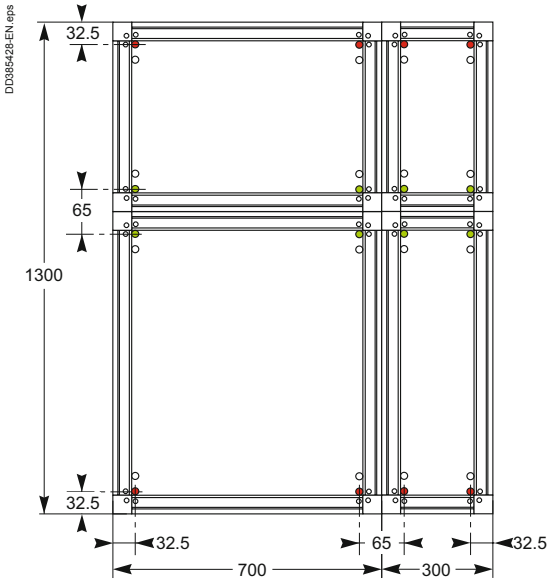
■ Front connection (example: device cubicle W700 mm + compartment W300 mm)



■ Rear connection D1000
(example: device cubicle + compartment D500 + D500 mm)



■ Rear connection D1300
(example: device cubicle + compartment D800 + D500 mm)



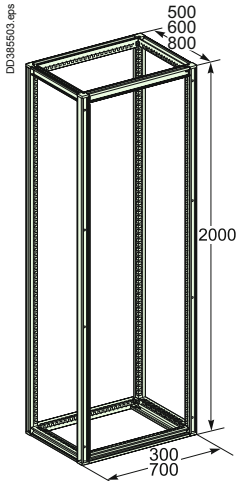
● compulsory fixing point
● optional fixing point

■ 8.8-class screws: screw M10 TH
+ washers (external Ø 25 mm, thickness 3 mm)
+ CS contact washers Ø 10 mm.

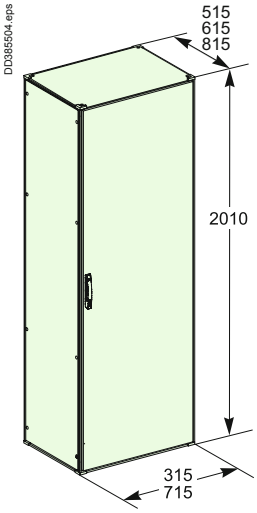
Prisma functional system
Dimensions

Cubicles

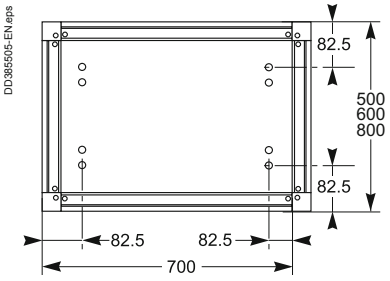
Profile



Cover panels, plain or transparent door, lateral panels

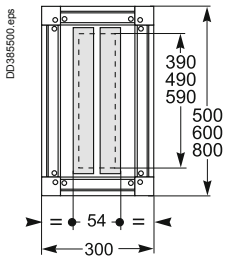


Standard plinth

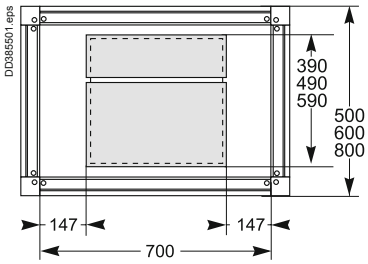


Gland plates

W300

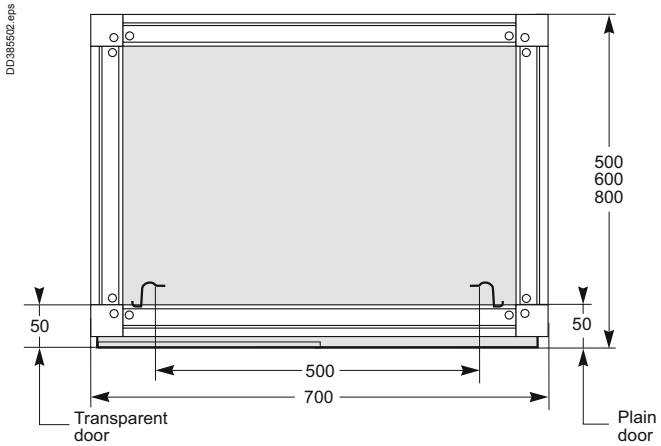


W700



Functional system in Spacial SFP switchboards, cubicle mounting

D500, D600, D800

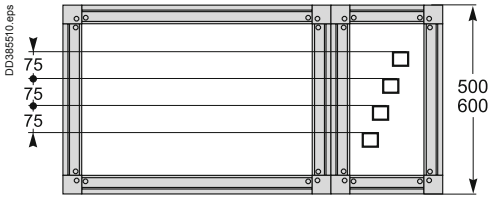


Prisma functional system
Dimensions

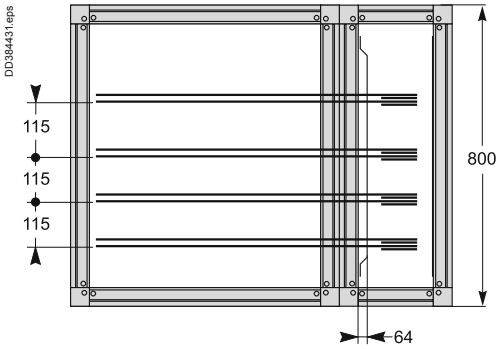
Ground fastening

Busbars mounting, Lateral vertical busbars

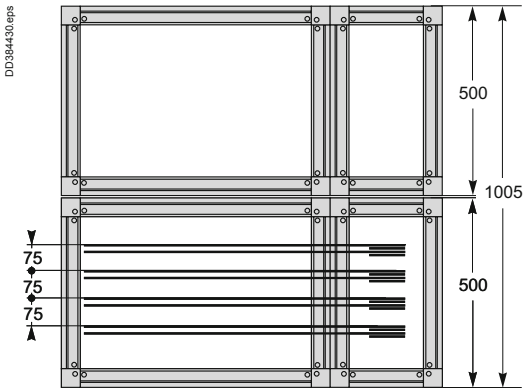
1600 A



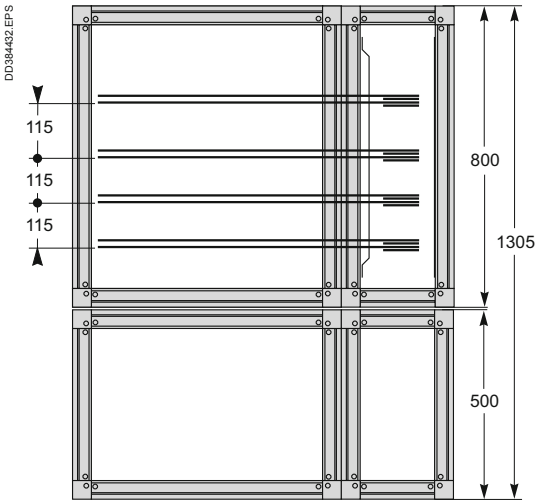
2500 A



2000 A



3200 A



Enclosures for power distribution (modular)
Introduction

> The **Spacial S3DM enclosure** for modular distribution can be equipped with:
- a modular chassis (NSYDLM•••) with cut-out front panels for 24 to 234 modules according to the dimensions and references (see page 246),
- a 6 mm^2 earth connection placed between the body and the door.

The enclosure can be equipped with accessories from the Spacial standard wall-mounting range.

PB500097



S3DM enclosure (standard delivery).

PB500406-30



S3DM enclosure equipped with a DLM modular chassis.

PB500407-32



Easily removable and reversible door
- With 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges.
- Three locking points for heights of more than 600 mm.
- Perforated rails on the hinge side of the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm.

PB500408-23



Dedicated accessories
The DLM modular chassis consists of metal cut-out front panels which can clip on with any screws. Rigid structure made from galvanised steel. The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.
For enclosures with a depth of 150 mm, the chassis can be installed at the front or on the backstuds at the rear. It is possible to adjust its depth using the adjustable supports (**NSYSDCR••** type).
It can also be equipped with a plain mounting plate, see page 212.

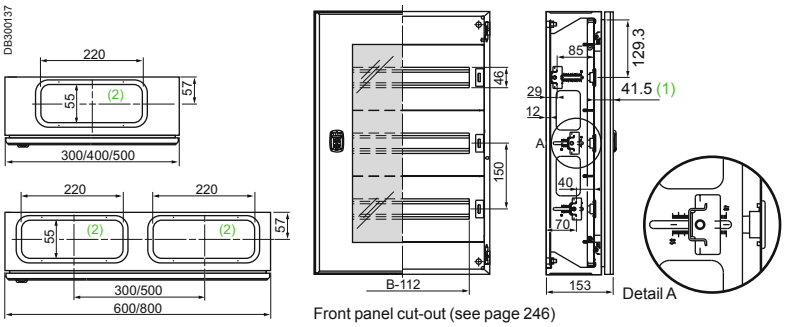
Enclosures for power distribution (modular)
Characteristics



Characteristics	Spacial S3DM
	■ Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped. ■ 4 M8 x 25 mm shouldered backstuds for installing chassis and step slides, leaving a space of 10 mm behind them. ■ Cable-gland plate (245 x 80) at the top and bottom of the enclosure, guaranteeing the maximum access surface (also available in plain door).
Finish	Structured finish, polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP66
Mechanical protection rating	IK08
Supply	Wall-mounting enclosure supplied with 3 mm double-bar lock as standard

References

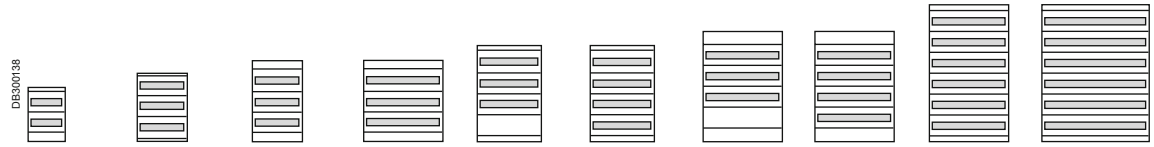
Height (mm)	Width (mm)	Depth (mm)	
400	300	150	**NSYS3DM4315T**
500	400	150	**NSYS3DM5415T**
600	400	150	**NSYS3DM6415T**
	600	150	**NSYS3DM6615T**
700	500	150	**NSYS3DM7515T**
800	600	150	**NSYS3DM8615T**
1000	600	150	**NSYS3DM10615T**
	800	150	**NSYS3DM10815T**



Front panel cut-out (see page 246)

(1) Front face of the modular chassis / front face of the door.
(2) Cable-gland plates at the top and bottom of the enclosure.

Number of modules per chassis** (every 18 mm)



Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total nº of modules	24	48	48	84	66	88	84	112	168	234

** References **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P**, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up.*
*** DLM modular chassis, see page 246.*
The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

Enclosures for power distribution (terminal blocks)
Introduction

> The **Spacial S3DB enclosure** is made to be equipped with terminal blocks. It is ready to be equipped with a ladder mounting plate and a symmetrical DIN rail (to be ordered separately). The body does not have cable gland opening.
The **Spacial S3DB enclosure** is the ideal coupling enclosure with FL21 cut-out.

PB500228-90



Safety
Welding studs on door and body (earth cables to be ordered separately).

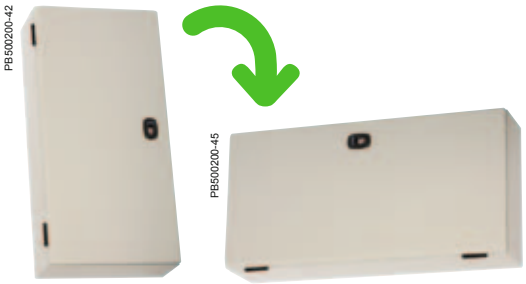
PB500228-35



Smart
Example of installation with the ladder mounting plate.

PB500200-42

PB500230-45



Vertical position. *Horizontal position.*

PB500201-50



Enclosures for power distribution (terminal blocks)
Characteristics





Characteristics	Spacial S3DB	Spacial S3DBFL*
	Body Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped. ■ Depth 150 mm. The terminal enclosure can be installed vertically (the width becomes the height). ■ Wall-mounting directly or by means of fixing lugs (to be ordered separately). ■ 4 M8 x 25 shouldered backstuds. ■ Body without cable-gland openings. **Door** ■ Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 180°. ■ Door opening to more than 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position). ■ Maximum acceptable load on the door: 20 kg/m². ■ Wall-mounting enclosure supplied with 3-mm double-bar lock as standard. ■ M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure. **Dedicated accessories** The terminal enclosure, with a depth of 150 mm, can be equipped: ■ With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. ■ With a symmetrical rail to be installed on the rails. ■ With a 6-mm² earth braid to be placed between the body and the door. It can also be equipped with a plain mounting plate, see page 212.	**Body** Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped. ■ Wall-mounting directly or by means of fixing lugs (to be ordered separately). ■ 4 M8 x 25 shouldered backstuds. ■ Body with FL21-type cable-gland opening on the bottom of the enclosure (blanking plate ref. **NSYAECPFLBP** to be ordered separately). **Door** ■ Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 120°. ■ Door opening to more than 120° for maximum accessibility (the door comes to rest on the body of the enclosure in top position). ■ Maximum acceptable load on the door: 50 kg/m². ■ Wall-mounting enclosure supplied with 3-mm double-bar lock as standard. ■ M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure. **Dedicated accessories** The terminal enclosure, with a depth of 170 mm, be equipped: ■ With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. ■ With a symmetrical rail to be installed on the rails. ■ With a 6-mm² earth connection to be placed between the body and the door. It can also be equipped with a plain mounting plate, see page 212.
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey
Ingress protection rating	IP66	IP65 (with membrane mounted)
Mechanical protection rating	IK10	IK10

References

Height (mm)	Width (mm)	Depth (mm)		
250	300	150	**NSYS3DB25315**	-
	400	150	**NSYS3DB25415**	-
	500	150	**NSYS3DB25515**	-
300	300	150	**NSYS3DB3315**	-
		170	-	**NSYS3DBFL3317**
	400	150	**NSYS3DB3415**	-
		170	-	**NSYS3DBFL3417**
	500	150	**NSYS3DB3515**	-
	600	150	**NSYS3DB3615**	-
400	300	150	**NSYS3DB4315**	-
		170	-	**NSYS3DBFL4317**
	800	150	**NSYS3DB4815**	-
500	400	150	**NSYS3DB5415**	-
600	400	150	**NSYS3DB6415**	-

** This range is completed by the Spacial S3DB.*

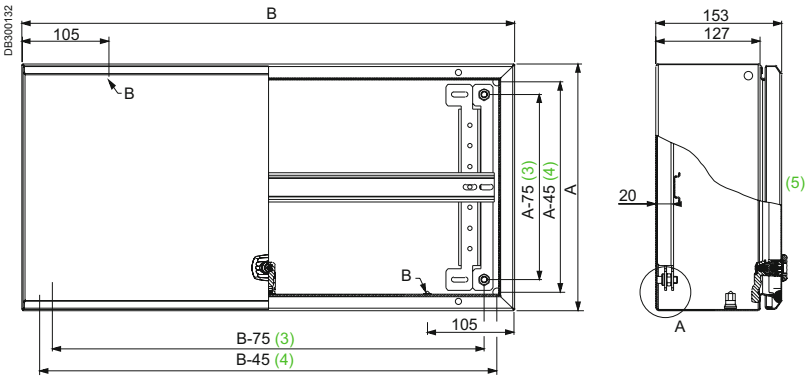
Enclosures for power distribution (terminal blocks)
Dimensions

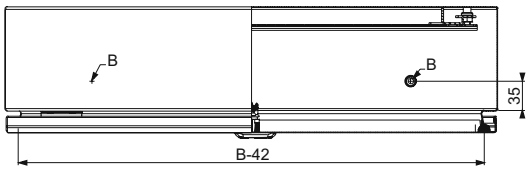
Spacial S3DB

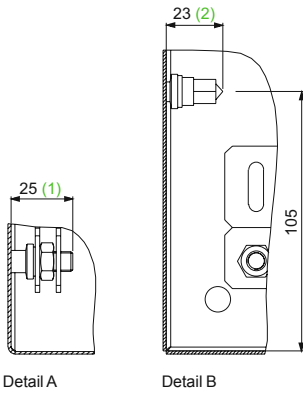
A: Enclosure height
B: Enclosure width
C: Enclosure depth

(1) With ladder mounting plate installed.
(2) M6 x 17.5 mm earthing stud.
(3) Stud centre-to-centre distance.
(4) Centre-to-centre distance of the holes for direct fixing.
(5) Drop-leaf door.

The provided dimensions are with the ladder mounting plate, which is the most commonly used accessory with this enclosure.

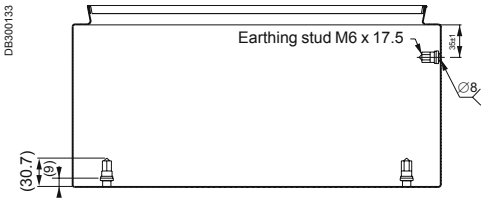


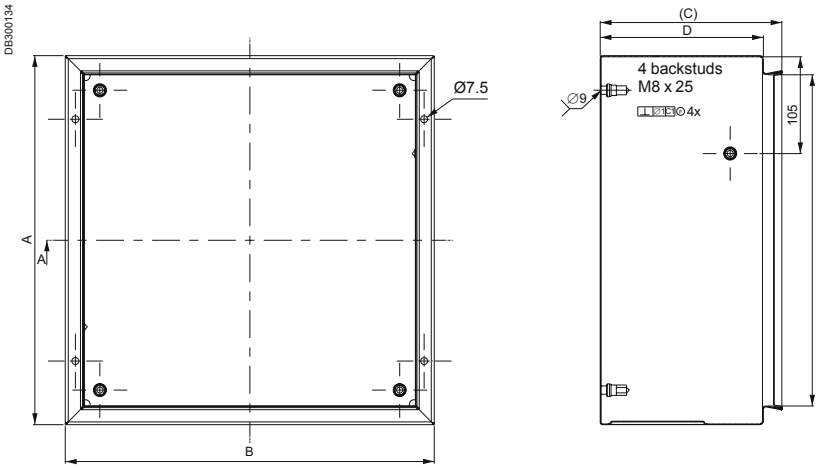


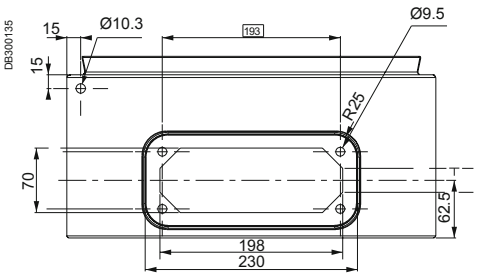


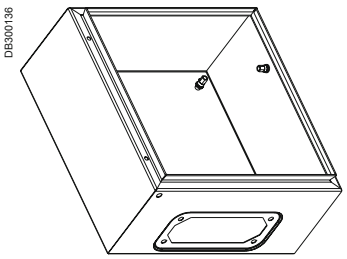
Enclosures for power distribution (terminal blocks)
Dimensions

Spacial S3DBFL









Compartmentalised enclosure for Motor Control Centres

Fixed compartmentalised swithchboards for Motor Control Centres

The Spacial SFM compartmentalised functional fixed system can be used for motor control centres in industrial environments (IP54).
It has been tested taking into account device characteristics.
This ensures a high degree of reliability in system operation and optimum safety.
Devices can be mounted on universal mounting plates on a workcut-out to simplify installation in the switchboard.

Fixed functional system for Motor Control

The fixed functional system for Motor Control Centres is designed for installation of motor starters up to 250 kW.

PB502998-75



Compartmentalised enclosure for Motor Control Centres
Motor protection

In addition to the motor power and the starter type (direct, reversing, star-delta…), 4 main criteria have to be taken into account when choosing a motor starter:
- the operational voltage,
- the type of thermal protection, electro-mechanical or electronical,
- the type of magnetic protection, according to the switchboard's Isc,
- the type of installation, according to the required availability level.

Operational voltage

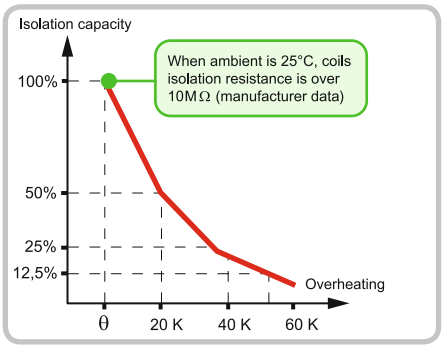
Network's operational voltage is a decisive parameter in the choice of motor protection. Indeed, the operational voltage will have an impact on the device's performances and the installation constraints.
For instance, the voltage will influence:
- the breaking performances,
- the safety areas.

Motor protection

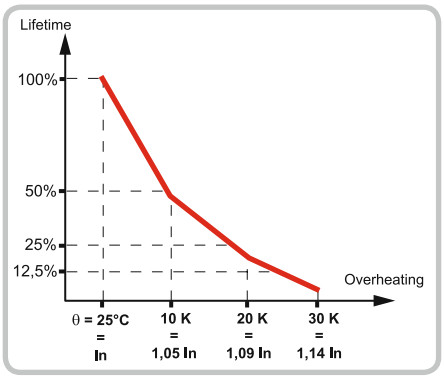
Protecting the motors to extend their lifetime

- Overheating in electrical motors is caused by copper and ferro-magnetic losses:
  - the current I is proportional to the motor's load. Copper losses are proportional to I² (stator and rotor),
  - hysteresis cycles in ferro-magnetic materials and the induced Foucault currents cause overheating, which is in particular proportional to frequency.
- The consequence of abnormal overheatings is a reduced isolation capacity of the materials, thus leading to a significant shortening of the motor lifetime, as shown in the opposite diagram.
- In continuous or semi-continuous processes, availability is a major issue. It is therefore decisive to observe accurately the operating conditions of the motors.
- Motor protection relays are the components dedicated to this task. They provide various levels of accuracy and functionalities, in order to meet the expectations of the process manager.

DD405318_SE



DD405340



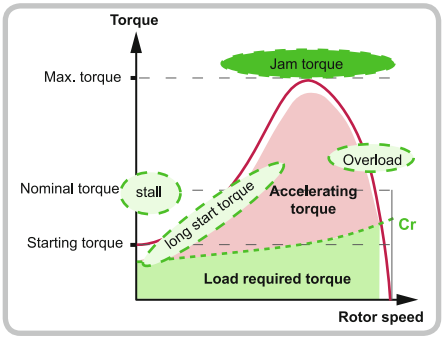
Supervising finely the motors to improve process availability

- An electrical motor transforms electrical energy in mechanical energy.

When the voltage, current and frequency change, the speed and torque of the motor change too. And conversely, any changes in charge have a direct impact on the electrical parameters.
- **Electromechanical thermal relays** protect the motor against overloads.
- **Electronical relays** protect the motor against overloads, on the basis of very sophisticated and highly accurate thermal patterns.
  - These relays are able to make out several cases of motor overload, and to transmit the information, thus allowing the operator to have a better understanding of the true nature of the problem,
  - These relays report for many complementary parameters, providing useful informations to the operator, therefore giving him the opportunity to avoid motor stops, or to re-start quickly if a stop has occurred.
  - Examples:
    - motor under-load can be the signal of a pump cavitation,
    - phase inversion can be the indication of a maintenance error, that should be hard to diagnose without that sign.
  - In addition to the observation of currents, the electronical relays can monitor the voltage, and consequently the power and the power factor. They can also watch the leakage currents and measure the actual coil temperature whenever it has a built-in sensor.

All these informations give an additional level of anticipation and shrewdness to help coping with problems.
  - Finally, electronical relays can take on information-processing functions, like state and faults statistics. They are also able to suggest logical solutions, and to react in a process-specific way.

DD405342_SE

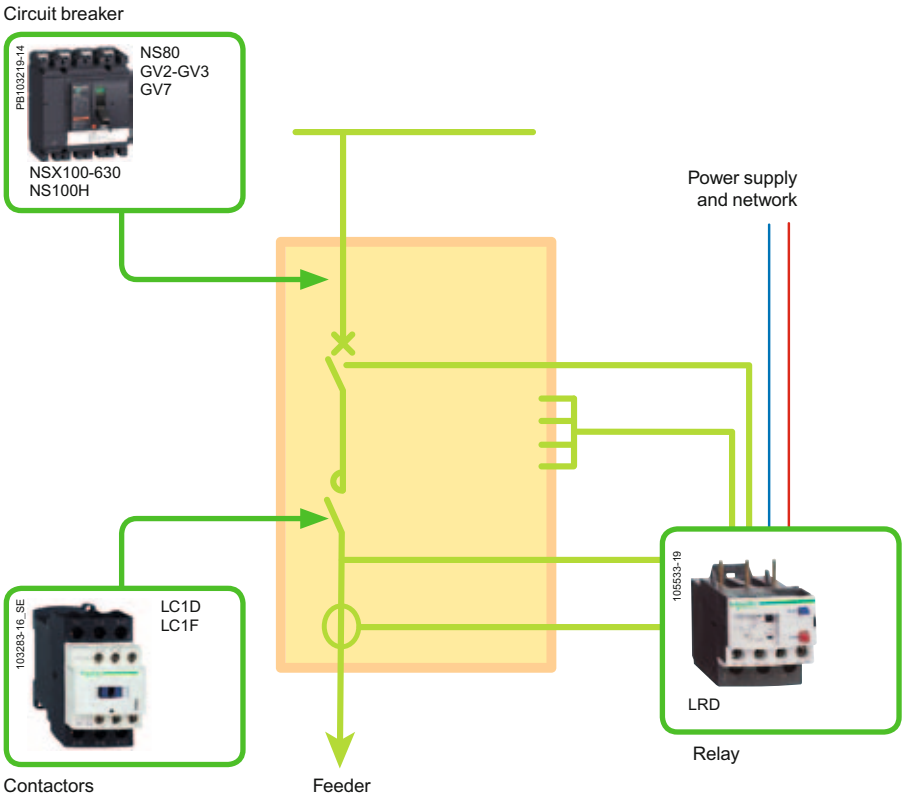


Compartmentalised enclosure for Motor Control Centres
Motor protection

Magnetic protection: circuit-breakers and fuses

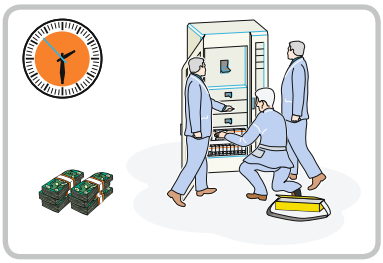
Schneider Electric have chosen to put forward circuit-breakers each time it is possible, as they have advantages in terms of maintenance and capacity of quick re-operating.
The advantages of magnetic circuit breakers over fuses are listed below:
- universal solution that can be exported to all countries, unlike the fuses, which standards are not coordinated,
- reduced dimensions,
- limited temperature rise,
- faster maintenance,
- no risk of over-rating the fuse cartridge (causing the motor destruction) or underrating (untimely tripping).

Spacial SFM: a combination for control motor starter



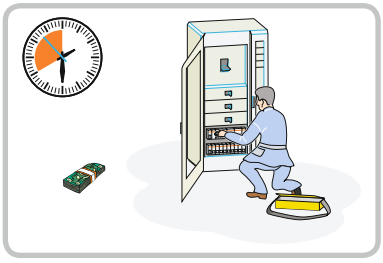
Compartmentalised enclosure for Motor Control Centres
Coordination

DD383428



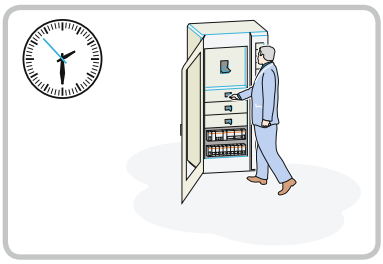
Type 1 coordination

DD383429



Type 2 coordination

DD383430



Total coordination

Coordination, what is it about?
A "motor starter" can be made up of 1, 2, or 3 different devices. They have to be coordinated in a way they ensure an optimal operation of the installation.

Aims of coordination
In case of a fault, the coordination's purposes are:
- to protect of the people and the equipment,
- to permit continuity of service,
- to reduce maintenance costs (manpower and replacement equipment).

Types of coordination as per IEC 60947-4-1
- Type 1 coordination: basic solution
  - no continuity of service,
  - important maintenance costs in case of a fault (manpower and equipment).
- Type 2 coordination: solution ensuring continuity of service
  - reduced machine shutdown time,
  - reduced cost of replacement equipment.
- Total coordination, as per IEC 60947-6-2:
  - no damage nor resetting of devices following a fault,
  - installation immediate return to operation.

Schneider Electric's choice as regards coordination
For applications in Spacial SFM high availability switchboard, Schneider Electric has **accepted**:

> **type 2 or total coordination** on grounds of:
- a low cost for repairing the equipment,
- a reduced machine shutdown time,

and **dismissed**:

> **type 1 coordination and non-coordoned feeders** because of:
- an expensive return to operation,
- a long machine shutdown time.

Compartmentalised enclosure for Motor Control Centres

Motor starter solutions

PD405140-30



2-component motor starter

Thermomagnetic circuit-breaker + contactor

■ **Advantages**

□ Very economic solutions.
□ Suitable for all types of diagrams.
□ Manual reset following a thermal fault.
□ Type 2 coordination.

■ **Applications**

□ Manufacturing and continuous and semi-continuous processes.

PD405141-30



3-component motor starter

■ **Advantages**

□ Wide choice of solutions.
□ Suitable for all types of diagrams.
□ Manual or automatic reset following a thermal fault.
□ 2 starting classes (10 and 20).
□ Type 2 coordination.
□ Segregation of thermal and magnetic faults.

■ Magnetic circuit-breaker + contactor + thermal protection

□ For manufacturing and continuous and semi-continuous processes.

■ Switch-disconnector fuse + contactor + thermal protection

□ For all types of machines.
□ For manufacturing and continuous and semi-continuous processes.

Compartmentalised enclosure for Motor Control Centres
Enclosures

PB502987-70



Presentation

The Spacial SFM compartmentalised enclosures system used for MCC are based on the Spacial SF range.
They offer the same functions:
- Different possible configurations, combined side-by-side or back-to-back.
- The built-in partial doors and panels design allow to meet the required degree of protection.

And the same advantages:
- Save time through all assembly phases.
- Enclosure robustness.

Modularity and Versatility

They offer 36 vertical modules, each 50 mm high, of useful space.
They have 4 different enclosure dimensions and 2 additional chambers for distribution busbars or cabling management.
They can also be coupled with Spacial SFP for power distribution switchboards.

The functional system

PB502985-32



A metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and partial doors can be mounted.
They are used to build IP54 configurations and see ClimaSys offer options for ventilation.
Electrical continuity is achieved using earthing braids.
Plain partial doors are reversible for quick left or right-hand mounting by a single person, 120° opening.
The robustness of the locking system allows naturally the good alingment of the assembly. From 1 to 4 locking points system with 5 mm double-bar insert as standard supply with possibility to replace it by other shape insert.

A distribution system

Vertical busbars positioned in a lateral compartment and horizontal busbars are used to distribute electricity throughout the switchboard.

Complete functional units

The functional unit need to be composed by:
- motor control and protection devices,
- a dedicated plain mounting plate for device installation,
- up to form 4b thanks to the gland boxes for the terminal isolation on the back of the switchboard or on the side of the cabling chamber,
- devices for on-site connections.

The functional units are modular and designed for installation one on top of another.
The system includes everything required for functional unit mounting, supply and onsite connection.
The components of the Spacial SFM compartmentalised system and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.
Electrical switchboards built using Schneider Electric recommendations fully comply with international standard IEC 61439-1&2 and IEC 62208.

Compartmentalised enclosure for Motor Control Centres
Enclosures

Withstand to the most demanding environements
- IP54 degree of protection for the dusty and/or damp industrial environments.
- Seismic withstand.
- Optional forced ventilation for environments with ambient temperatures hotter than 45°C or for devices sith considerable heat loss (see ClimaSys offer options).

Type tested

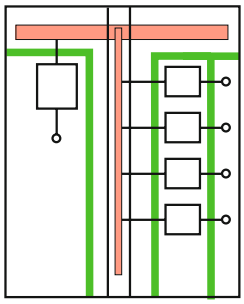
Spacial SFM compartmentalised is totally type-tested in accordance with IEC 61439-1&2.
- Certified by independant lab.
- As well as by a permanent control in Schneider Electric test laboratories.
- Type-tests are carried out:
  - temperature-rise limit,
  - dielectric properties,
  - short-circuit withstand,
  - effectiveness of the protective circuit,
  - conformity of the clearance and creepage distances,
  - mechanical operation,
  - degree of protection.

PB502988-62

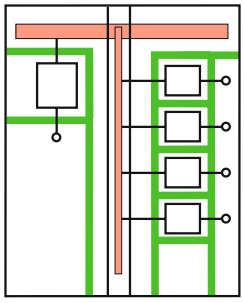


Partitioning
Partitioning is essential to ensure the utmost protection of the installation and personnel carrying out work in the switchboard.
Used in conjunction with the standard protection (terminal shields, factory-built connections), partitioning prevents any direct contact with live parts.

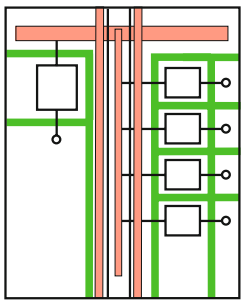
Form 2b
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.



Form 3b
Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.
- Protection against contact with live parts.
- Reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).



Form 4b
Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.



Compartmentalised enclosure for Motor Control Centres

Fix enclosures

PB502999-71



General data	
Applications	MCC
Standards	IEC 61439-1&2
Internal arc	No
Seismic	3G
Installation	Indoor

Mechanical data	
Cable inlet	Top / Bottom
Access	Front / Rear Side
IP	54
IK	10
Form	4b type 7
Withdrability	FFF
Dimensions	H 2000 / W 600 & 800 / D 600 & 800
Color	RAL 7035

Electrical data	
Insulation voltage (Ui)	1000 V
Voltage rating(Ue)	415 V
Coordination	Type 2
Frequency	50/60 Hz
Auxiliary circuit voltage	230 V
Degree of pollution	3
Rated current (IP>31)	2500 A (with Copper & Linergy)
Short circuit (Icw - 1s)	85 kA

Compartmentalised enclosure for Motor Control Centres

Mounting plates for fixed MCC switchboards

PB502989-60



PB502990-58



PB502991-66



Motor control functional units

The plain mounting plates can be used to install all the devices making up an MCC motor starter on a single support.

Easy installation

Motor feeders can be prepared on a bench making the cut-outs needed.
The quick-fixing system allows to hold the mounting plate during device installation and wiring. The mounting plate can be fixed on the side partitions in adjustable depth with a pitch of 50 mm.

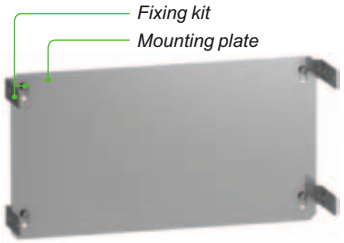
Switchboard upgradeability

- Functional units with form partitioning 3b and 4b.
- Sides and Rear accessibility.
- Separation panels with pre-cuts for cable-glands ref. 01215.

Functional unit reliability

- The unit of height for the mounting plates is the 50 mm module.
- 3 to 24 module (150 to 1200 mm) mounting plates are installed in 600 and 800 mm wide cubicles.
- Capacity of Spacial SFM cubicles: 36 modules (50 mm each).
- Cables are run in dedicated 300 or 400 mm wide lateral compartments.

Plain mounting plates



Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
		800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
		800	**NSYMP5M8**	
8M	250	600	**NSYMP8M6**	
		800	**NSYMP8M8**	
9M	450	600	**NSYMP9M6**	
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
		800	**NSYMP16M8**	
18M	800	600	**NSYMP18M6**	
		800	**NSYMP18M8**	
20M	800	600	**NSYMP20M6**	
		800	**NSYMP20M8**	
24M	800	600	**NSYMP24M6**	
		800	**NSYMP24M8**	

Compartmentalised enclosure for Motor Control Centres

2-component motor starter

Direct on line and reversing GV2, GV3 and GV7

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With GV1L3	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	DOL	Reversing
GV2							
85	-	0.18	0.6	GV2-P04	LC1D09	3M	3M
85	-	0.25	0.9	GV2-P05	LC1D09	3M	3M
85	-	0.37	1.1	GV2-P06	LC1D09	3M	3M
85	-	0.55	1.5	GV2-P06	LC1D09	3M	3M
85	-	0.75	1.8	GV2-P07	LC1D09	3M	3M
85	-	1.1	2.6	GV2-P08	LC1D09	3M	3M
85	-	1.5	3.4	GV2-P08	LC1D09	3M	3M
85	-	2.2	4.8	GV2-P10	LC1D09	3M	3M
85	-	3	6.5	GV2-P14	LC1D09	3M	3M
85	-	4	8.2	GV2-P14	LC1D18	3M	3M
50	85	5.5	11	GV2-P16	LC1D25	3M	3M
50	85	7.5	14	GV2-P20	LC1D25	3M	3M
50	85	10	19	GV2-P21	LC1D32	3M	3M
50	85	11	21	GV2-P22	LC1D32	3M	3M
50	85	15	28	GV2-P32	LC1D32	3M	3M
50	-	18.5	34	GV3-P40	LC1D50A	3M	4M
50	-	22	40	GV3-P50	LC1D50A	3M	4M
50	-	30	55	GV3-P65	LC1D65	3M	4M
70	-	15	28	GV7-RS40	LC1D40	3M	6M
70	-	18.5	34	GV7-RS40	LC1D50	3M	6M
70	-	22	40	GV7-RS50	LC1D80	3M	6M
70	-	30	55	GV7-RS80	LC1D80	3M	6M
70	-	37	66	GV7-RS80	LC1D80	3M	6M
70	-	45	80	GV7-RS100	LC1D115	4M	9M
70	-	55	100	GV7-RS150	LC1D150	6M	9M
70	-	75	135	GV7-RS150	LC1F185	9M	12M
70	-	90	160	GV7-RS220	LC1F225	9M	12M
70	-	110	200	GV7-RS220	LC1F265	9M	12M

(1) 2xLC1-D for reversing

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
		800	**NSYMP4M8**	
6M	300	600	**NSYMP6M6**	
		800	**NSYMP6M8**	
9M	450	600	**NSYMP9M6**	
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter

Direct on line and reversing GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With LA9LB920	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
85	-	0.18	0.6	GV2-L04	LC1D09	LRD04	3M	3M
85	-	0.25	0.9	GV2-L05	LC1D09	LRD05	3M	3M
85	-	0.37	1.1	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.55	1.5	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.75	1.8	GV2-L07	LC1D09	LRD07	3M	3M
85	-	1.1	2.6	GV2-L08	LC1D09	LRD08	3M	3M
85	-	1.5	3.4	GV2-L08	LC1D09	LRD08	3M	3M
85	-	2.2	4.8	GV2-L10	LC1D09	LRD10	3M	3M
85	-	3	6.5	GV2-L14	LC1D09	LRD12	3M	3M
85	-	4	8.2	GV2-L14	LC1D18	LRD14	3M	3M
50	85	5.5	11	GV2-L16	LC1D25	LRD16	3M	3M
50	85	7.5	14	GV2-L20	LC1D25	LRD21	3M	3M
50	85	10	19	GV2-L21	LC1D32	LRD22	3M	3M
50	85	11	21	GV2-L22	LC1D32	LRD22	3M	3M
50	85	13	24	GV2-L32	LC1D32	LRD32	3M	3M
50	-	18.5	34	GV3-L40	LC1D50A	LRD340	3M	4M
50	-	22	40	GV3-L50	LC1D50A	LRD350	3M	4M
50	-	26	49	GV3-L65	LC1D65A	LRD365	3M	4M

(1) 2xLC1-D for reversing.

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
		800	**NSYMP4M8**	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter

Direct on line and reversing NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
70	18.5	34	NS80H-MA	LC1D50	LRD3355	3M	6M
70	22	40	NS80H-MA	LC1D50	LRD3357	3M	6M
70	30	55	NS80H-MA	LC1D65	LRD3359	3M	6M
70	37	66	NS80H-MA	LC1D80	LRD3363	3M	6M
(2)	18.5	34	NSX100• MA	LC1D80	LRD3355	3M	6M
(2)	22	40	NSX100• MA	LC1D80	LRD3357	3M	6M
(2)	30	55	NSX100• MA	LC1D80	LRD3359	3M	6M
(2)	37	64	NSX100• MA	LC1D80	LRD3363	3M	6M
(2)	45	80	NSX100• MA	LC1D115	LR9D5367	6M	9M
(2)	55	100	NSX160• MA	LC1D150	LR9D5369	6M	9M
(2)	75	135	NSX160• MA	LC1F185	LR9F5369	9M	12M
(2)	90	160	NSX250• MA	LC1F225	LR9F5371	9M	12M
(2)	100	187	NSX250• MA	LC1F265	LR9F5371	9M	12M
(2)	132	230	NSX400• 1.3-M	LC1F330	LR9F7375	12M	16M
(2)	160	270	NSX400• 1.3-M	LC1F330	LR9F7375	12M	16M
(2)	200	361	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M
(2)	220	380	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M
(2)	250	430	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M

(1) 2xLC1-D for reversing
(2) NSX...F = 36 kA
NSX...N = 50 kA
NSX...H = 70 kA
NSX...S = 85 kA
NSX400L = 150 kA
NSX630L = 150 kA

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
6M	300	600	**NSYMP6M6**	
		800	**NSYMP6M8**	
9M	450	600	**NSYMP9M6**	
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
		800	**NSYMP16M8**	

Compartmentalised enclosure for Motor Control Centres

2-component motor starter
Star-delta GV2, GV3 and GV7

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)
Without limiter	With GV1L3	P max (kW)	I max (A)	Circuit breaker	Contactor	Star-delta
85	-	0.37	1.1	GV2-P06	3xLC1D09	4M
85	-	0.55	1.5	GV2-P06	3xLC1D09	4M
85	-	0.75	1.8	GV2-P07	3xLC1D09	4M
85	-	1.1	2.6	GV2-P08	3xLC1D09	4M
85	-	1.5	3.4	GV2-P08	3xLC1D09	3M
85	-	2.2	4.8	GV2-P10	3xLC1D18	4M
85	-	3	6.5	GV2-P14	3xLC1D18	3M
85	-	4	8.2	GV2-P14	3xLC1D18	4M
50	85	5.5	11	GV2-P16	3xLC1D25	4M
50	85	7.5	14	GV2-P20	3xLC1D25	4M
50	85	10	19	GV2-P21	3xLC1D32	5M
50	85	11	21	GV2-P22	3xLC1D32	4M
35	85	15	28	GV2-P32	3xLC1D32	4M
50	-	18.5	34	GV3-P40	3xLC1D50A	5M
50	-	22	40	GV3-P50	3xLC1D50A	5M
50	-	30	55	GV3-P65	3xLC1D65A	5M
70	-	15	28	GV7-RS40	3xLC1D80	9M
70	-	18.5	34	GV7-RS40	3xLC1D50	9M
70	-	22	40	GV7-RS50	3xLC1D80	9M
70	-	30	55	GV7-RS80	3xLC1D80	9M
70	-	45	80	GV7-RS100	3xLC1D115	12M
70	-	55	100	GV7-RS150	3xLC1D150	12M
70	-	75	135	GV7-RS150	3xLC1F185	16M
70	-	90	160	GV7-RS220	3xLC1F225	16M
70	-	110	200	GV7-RS220	3xLC1F265	16M

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
		800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
		800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
		800	**NSYMP5M8**	
9M	450	600	**NSYMP9M6**	
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
		800	**NSYMP16M8**	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter
Star-delta GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
Without limiter	With LA9LB920	P max (kW)	I max (A)	Circuit breaker	Contactor	Thermal relay	Star-delta
85	-	0.37	1.1	GV2-L06	3xLC1D09	LRD06	4M
85	-	0.55	1.5	GV2-L06	3xLC1D09	LRD06	4M
85	-	0.75	1.8	GV2-L07	3xLC1D09	LRD07	4M
85	-	1.1	2.6	GV2-L08	3xLC1D09	LRD08	4M
85	-	1.5	3.4	GV2-L08	3xLC1D09	LRD08	4M
85	-	2.2	4.8	GV2-L10	3xLC1D18	LRD10	4M
85	-	3	6.5	GV2-L14	3xLC1D18	LRD12	4M
85	-	4	8.2	GV2-L14	3xLC1D18	LRD14	4M
50	85	5.5	11	GV2-L16	3xLC1D25	LRD16	4M
50	85	7.5	14	GV2-L20	3xLC1D25	LRD21	4M
50	85	10	19	GV2-L21	3xLC1D32	LRD22	4M
50	85	11	21	GV2-L22	3xLC1D32	LRD22	4M
35	85	15	24	GV2-L32	3xLC1D32	LRD32	4M
50	-	18.5	34	GV3-L40	3xLC1D50A	LRD340	5M
50	-	22	40	GV3-L50	3xLC1D50A	LRD350	5M
50	-	30	49	GV3-L65	3xLC1D65A	LRD365	5M

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
4M	200	600	**NSYMP4M6**	**NSYMPFIX**
		800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
		800	**NSYMP5M8**	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter

Star-delta NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
	P max (kW)	I max (A)	Circuit breaker	Contactor	Thermal relay	Star-delta
70	18.5	34	NS80H-MA	3xLC1D50	LRD3355	9M
70	22	40	NS80H-MA	3xLC1D50	LRD3357	9M
70	30	55	NS80H-MA	3xLC1D65	LRD3359	9M
70	37	66	NS80H-MA	3xLC1D80	LRD3363	9M
(1)	18.5	34	NSX100• MA	3xLC1D80	LRD3355	9M
(1)	22	40	NSX100• MA	3xLC1D80	LRD3357	9M
(1)	30	55	NSX100• MA	3xLC1D80	LRD3359	9M
(1)	37	64	NSX100• MA	3xLC1D80	LRD3363	9M
(1)	45	80	NSX100• MA	3xLC1D115	LR9D5367	12M
(1)	55	100	NSX160• MA	3xLC1D150	LR9D5369	12M
(1)	75	135	NSX160• MA	3xLC1F185	LR9F5369	16M
(1)	90	160	NSX250• MA	3xLC1F225	LR9F5371	16M
(1)	110	187	NSX250• MA	3xLC1F265	LR9F5371	16M
(1)	132	230	NSX400• 1.3-M	3xLC1F330	LR9F7375	20M
(1)	160	270	NSX400• 1.3-M	3xLC1F330	LR9F7375	20M
(1)	200	361	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M
(1)	220	380	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M
(1)	250	430	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M

(1) NSX...F = 36 kA
NSX...N = 50 kA
NSX...H = 70 kA
NSX...S = 85 kA
NSX400L = 150 kA
NSX630L = 150 kA

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
9M	450	600	**NSYMP9M6**	**NSYMPFIX**
		800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
		800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
		800	**NSYMP16M8**	
20M	1000	600	**NSYMP20M6**	
		800	**NSYMP20M8**	
24M	1200	600	**NSYMP24M6**	
		800	**NSYMP24M8**	

Compartmentalised enclosure for Motor Control Centres
Linergy distribution systems

Linergy LGYE-LGY

a breakthrough in busbar systems

Safe, reliable, flexible, and flexible with the highest level of performance

The Linergy LGYE-LGY busbar system now includes horizontal busbars, for greater electrical switchboard enclosure performance, reliability, and costeffectiveness.

Manufactured using a revolutionary process, patented Linergy busbars are unique on the market, taking your electrical switchboard installations a giant leap into the future.


PB502992-103

Discover how Linergy LGYE-LGY can place the next generation of low-voltage switchboards in your hands.

Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Innovative technology

from an energy expert you can trust

Patented Linergy LGYE-LGY is backed by Schneider Electric's decades of expertise in electrical distribution systems and is certified IEC 61439-2 compliant by ASEFA.

Linergy unique profile was designed with the ratings you need, a commitment to performance backed by regular testing up to 4000 A.

Heat is dissipated by conduction and radiation for performance only a market leader can bring you.

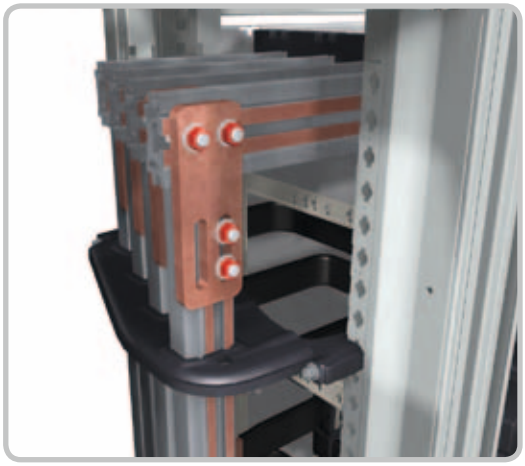
Linergy LGYE-LGY busbars performances are identical or better than traditional all Linergy BS busbars.

Unlike tin-plated aluminum busbars, rugged Linergy LGYE-LGY busbars are resistant to scratching during assembly to ensure optimal connection quality and reliability.

PB502993-68



PB502994-72



High Velocity Oxy-Fuel, unique on the busbar market

Patented Linergy LGYE-LGY uses a supersonic high-temperature coating process for a robust copper contact surface.

Compartmentalised enclosure for Motor Control Centres
Linergy distribution systems

A revolutionary design
for greater efficiency

The Linergy line now includes horizontal busbars, helping you achieve better electrical switchboard performance while optimizing busbar layout and facilitating assembly.

Schneider Electric™ has drawn upon 30 years of expertise in electrical distribution systems and a decade of hands-on experience with the proven and reliable Linergy line of products. It brings you a revolutionary design featuring a high-quality copper contact surface that delivers even better results than traditional Linergy BS-to-Linergy BS connections.

Linergy LGYE-LGY busbars offer a number of benefits to help you enhance performance and boost your competitiveness.

Lightweight
Linergy is half the weight of equivalent-rated Linergy BS bars for more fuel-efficient transport, easier handling, and smoother installation.

Higher-capacity
A single Linergy LGYE bar can withstand ratings up to 2500 A. It would take two or three Linergy BS bars per pole to achieve similar ratings.

Robust and flexible
Linergy LGYE bars are extruded for a unique profile that includes both closed and ribbed sections, improving rigidity, thermal dissipation, and resistance to short circuits, with a shortcircuit withstand capacity (Icw) of 85 kA/1s for SFM and 100 kA / 1s for Spacial SFP.

Attractive
The revolutionary copper contact strips, anodized aluminum surface, and unique shapes give a modern appearance and a soft touch.

IEC standards-compliant
The latest standards were factored in from the early design stages to ensure that temperatures are kept below the IEC61439-2 standard requirements, for optimal performance regardless of the switchboard configuration.

Environmentally-friendly
Instead of increasingly-scarce copper, Linergy LGYE is made from 70% recycled raw materials offering the same performance as primary raw materials.

Cost-effective
Linergy LGYE-LGY helps you achieve cost savings now and provides protection against fluctuating copper prices in the future, plus all the advantages of a raw material that is easy to purchase and store.



Linergy LGYE is **50% lighter than Linergy BS**

Reduce **costs and assembly times** over Linergy BS busbars

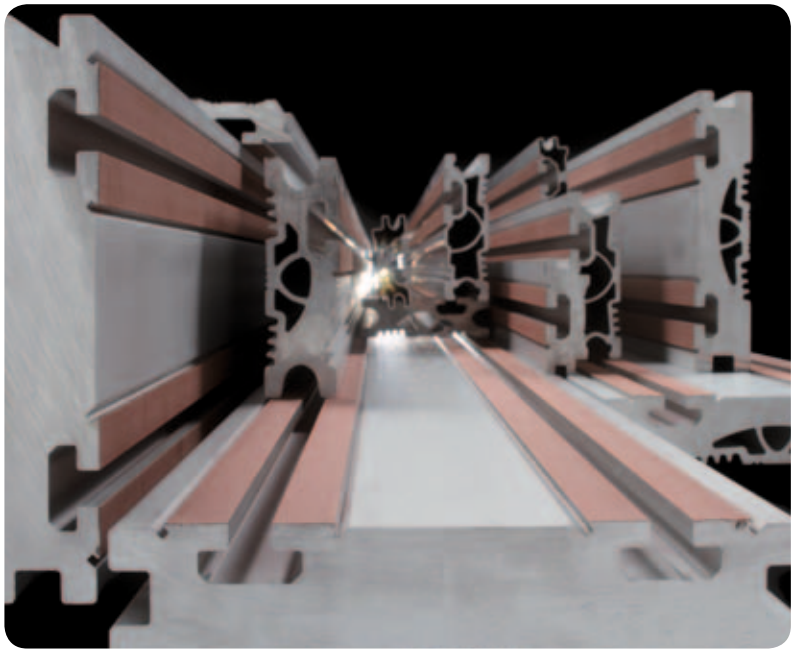
Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Linergy accessories are also evolving!

Linergy LGYE is a full-featured busbar system that includes all the connections, screws, bolts, isolating supports, and other accessories you need for drill-free assembly.

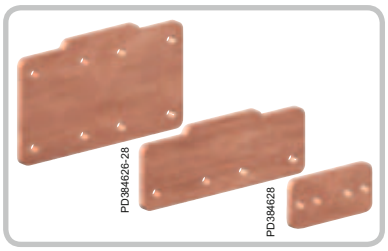
IMG_0167-158







PD384625-25



Panel builders, we've thought of everything to make your life easier!



IMG_9657-48

- Linergy LGYE-LGY busbars are lightweight, making them easy to transport and handle in the workshop.
- With Linergy LGYE-LGY, you can continue to use the familiar Spacial SFP busbar supports you already know for Linergy BS bars. There's no new system to learn.
- Linergy LGYE-LGY offers single bars for each rating, making handling during installation faster and more convenient.
- Linergy LGYE-LGY bars are fast and easy to position without drilling, thanks to a sliding bolt and track system.
- Linergy screws let you add extra outgoing connections without drilling new holes or dismounting previous connections or busbar supports, saving you time and giving you greater flexibility in the event of last-minute changes.
- Linergy LGYE-LGY busbars offer a unique shape with no sharp edges for safer, smoother handling and installation the bars simply slide right in to the busbar supports.
- Existing Linergy LGY vertical busbars are easy to connect to Linergy LGYE with ready-toinstall accessories like vertical connectors.
- Linergy materials are easy to recycle via well-established aluminum recycling services already in use for materials like aluminum cans, coffee capsules, door and window frames, and engine blocks.

Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Linergy also offers the most **advanced busbar solutions** while remaining **simple**.

PB502995-140



Linergy LGYE / LGY /BS

Power busbars

- Solutions available up to 2500 A for Spacial SFM up to 4 000 A for Spacial SFP.
- Connection everywhere without drilling (with LGY and LGYE profile).

Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Lateral Linergy busbars up to 1600 A

Busbar calculation

The following table indicates:

■ the catalogue numbers of the bars to be used, depending on the permissible current level in the busbars,

■ the number of supports required, depending on the rated short-time withstand current (Icw in kA rms / 1 second).

Linergy busbars	Cat. no.	Permissible current at 35 °C for switchboard		No. of supports Icw (kA rms / 1 s)							
		IP ≤ 31	IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Linergy 630	**04502**	630	590								
Linergy 800	**04503**	800	760								
Linergy 1000	**04504**	1000	950		**3**						
Linergy 1250	**04505**	1250	1170				**4**	**5**			
Linergy 1600	**04506**	1600	1480							**7**	**8**

Note: the permissible current values for the busbars are given for an ambient temperature of 35°C around the switchboard.
The bottom support also maintains the bars in position.
Each catalogue number represents one bar.

Busbar selection

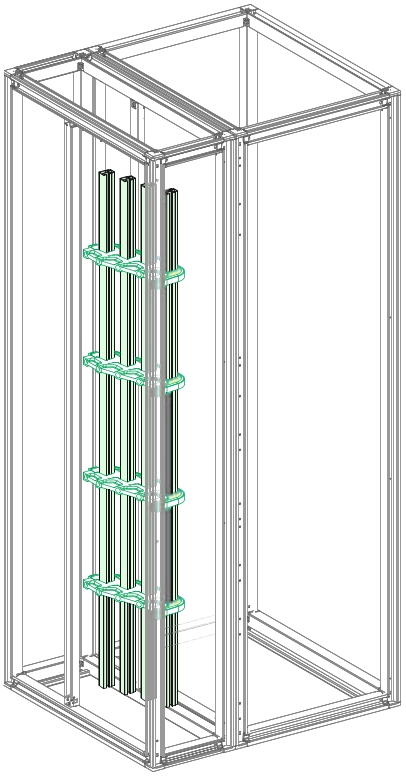
Linergy busbars, L = 1670 mm

Cat. no. selection

See the table below.

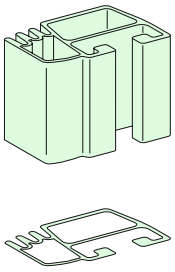
Each bar is supplied with a stop for the bottom support.

DB300923



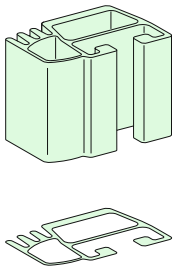
Busbars up to 1600 A.
The bottom support also maintains the bars in position.

DD384147b



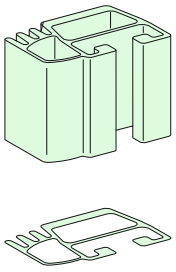
Bar 630 A.
Cat. no. 04502

DD384148b



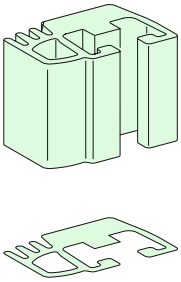
Bar 800 A.
Cat. no. 04503

DD384149b



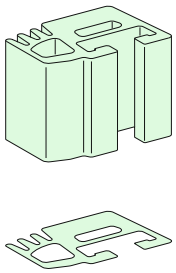
Bar 1000 A.
Cat. no. 04504

DD384150b



Bar 1250 A.
Cat. no. 04505

DD384151b



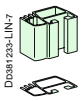
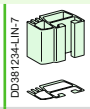
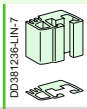
Bar 1600 A.
Cat. no. 04506

Compartmentalised enclosure for Motor Control Centres

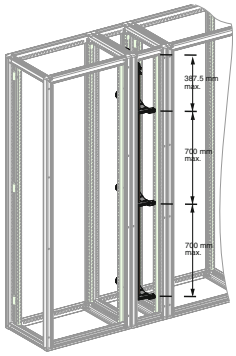
Linergy distribution systems

Linergy LGY - Lateral profiles up to 1600 A

Linergy LGY profiles

		Up to 1600 A (single busbar)				
In Spacial SF busbar chamber		W300				
Linergy profile, 1670 mm length		 DD381233-LIN-7	 DD381234-LIN-7	 DD381235-LIN-7	 DD381236-LIN-7	 DD381237-LIN_7
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35°C around the switchboard	IP ⩽ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		**04502**	**04503**	**04504**	**04505**	**04506**

Busbar supports



DD385383-EN


DD380741-LIN

Fixed support **04651**

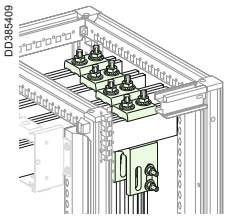
Characteristics


DD380742-LIN-12

An end stop must be fitted on the bottom support: **01109** (sold in lots of 12)

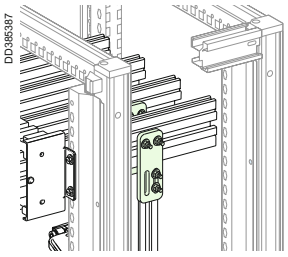
Number depending on Icw (kA rms/1 s)	⩽ 25	3				
	⩽ 30	-	3			
	⩽ 40	-		3		
	⩽ 50	-			4	
	⩽ 60	-			5	
	⩽ 65	-				5
	⩽ 75	-				7
	⩽ 85	-				8
Cat. no.		**04651** (set of 2 upright adapters **NSYSFPA** and set of 2 40 mm universal cross-rail **NSYSUCR40200** for installation in Spacial SF busbar chamber)				

Connections to the Linergy BS horizontal busbar


DD385409

Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick	**04634**	**04635**
	10 mm thick Width ⩽ 80 mm	**04636**	

Connections to the Linergy LGYE horizontal busbar


DD385387

⩽ 1600 A

Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
Cat. no.	**04602** (vertical connection) **04603** (vertical shifted connection) (1)

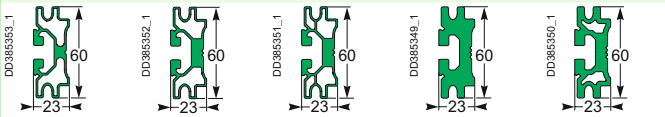
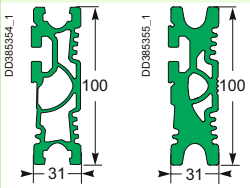
(1) Dedicated connection 04603 for Linergy LGYE busbar in 150 mm busbar chamber with horizontal jointing.

Compartmentalised enclosure for Motor Control Centres

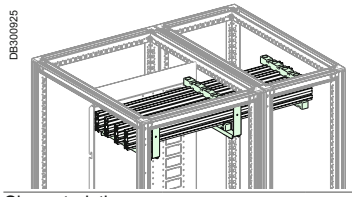
Linergy distribution systems

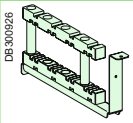
Linergy LGY - Horizontal profiles up to 2500 A

Linergy LGYE profiles

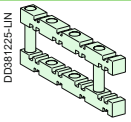
Installation in Spacial SFM compartmentalised	Up to 1600 A					Up to 2500 A	
Linergy profile, 2000 mm length							
	630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**
Permissible current for an ambient temp. of 35°C around the switchboard	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A
Number of profiles per phase	1						
Total number of vertical modules (50 mm)	3					3	
Cat. no.	**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**

Busbar supports





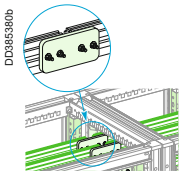
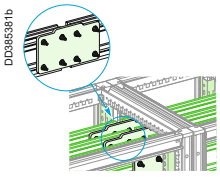
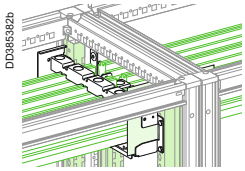
Fixed support



Free support

Characteristics			2 fixed supports for Spacial SF wide cublicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.
In cubicle SFM: W600/800 Busbar supports 75 mm distance between	Number of supports depending on Icw (kA rms/1 s)	≤ 15	2
		≤ 25	2
		≤ 30	2
		≤ 40	- / 2
		≤ 50	- / 2
		≤ 60	- / 2+1 / 2
		≤ 65	- / 2+1
		≤ 75	- / 2+1
		≤ 85	- / 2+1
Cat. no.	Fixed support	D400	**NSYMBHS4**
		D500	**NSYMBHS5**
Cat. no.	Free support		**04662**
In busbar chamber SF: W300/400 Busbar supports 75 mm distance between	Number of supports depending on Icw (kA rms/1 s)	≤ 15	1
		≤ 25	1
		≤ 30	1
		≤ 40	1
		≤ 50	1
		≤ 60	1
		≤ 65	1 + 1
		≤ 75	1 + 1
		≤ 85	1 + 1
Cat. no.	Fixed support	D600	**NSYBHS600** / **NSYBHS600**
		D800	**NSYBHS800** / **NSYBHS800**
Cat. no.	Free support		**04662** / **04662**

Joints

	Up to 1600 A					Up to 2500 A	
	630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**
	 **04620**					 **04624**	
Cat. no.	3 x **04620** (3P) 4 x **04620** + **04624** (4P)					3 x **04621** (3P) 4 x **04621** + **04624** (4P)	
Note	Reference **04624** is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.						

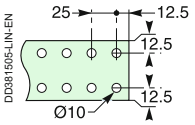
Note: *for accessories, see page 357.*

Compartmentalised enclosure for Motor Control Centres

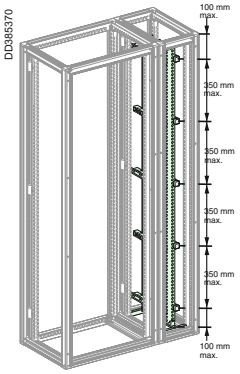
Linergy distribution systems

Linergy BS - Lateral flat busbars up to 2500 A

Flat busbars

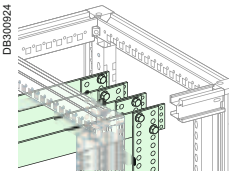
		Up to 1600 A				Up to 2500 A					
In Spacial SF busbar chamber		**W300 D500/600/800**				**W300 D500/600/800**					
Pre-slotted copper, 1675 mm length											
Permissible current for an ambient temp. of 35°C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2		1			2		
Cat. no.		**04516**	**04518**	**04516**	**04518**	**04525**	**04526**	**04528**	**04525**	**04526**	**04528**

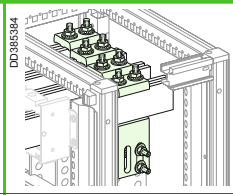
Busbar supports

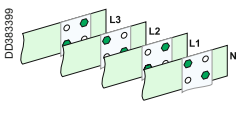


Description		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.									
Number of supports depending on Icw (kA rms/1 s)	≤ 15	3				3					
	≤ 25	3+2			3	3					
	≤ 30	3+2				3+2					3
	≤ 40	3+4		3+2		3+2					
	≤ 50		3+4			3+2					
	≤ 60					3+4					3+2
	≤ 65					3+4					3+2
	≤ 75						3+6		3+4		
	≤ 85									3+4	
Cat. no. of supports depending on distance between bars and busbar chamber depth	Spacial SF busbar chamber 75 mm distance between bars W300, D600	**NSYBVS600** (fixed) + **04662** (free) + **NSYAS600** (end stop support)									
	W300, D800	**NSYBVS800** (fixed) + **04662** (free) + **NSYAS800** (end stop support)									

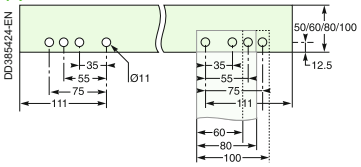
Connections to the Linergy BS horizontal busbar



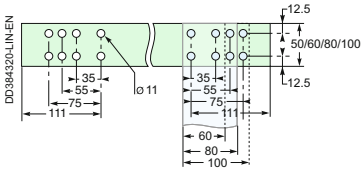


Characteristics		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(1)				References **04636**, **04637** are supplied individually: 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.					
											
		1 vertical bar per phase		2 vertical bars per phase		1 vertical bar per phase			2 vertical bars per phase		
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
Cat. no. of the connection piece depending on horizontal busbar size	≤ 80 mm	**04645**				**04636**		**04637**	**04637**		

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



Drill hole dimensions for 10 mm thick horizontal busbars.



Compartmentalised enclosure for Motor Control Centres

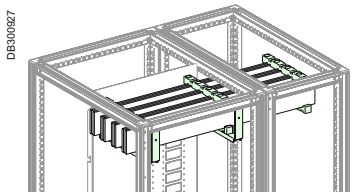
Linergy distribution systems

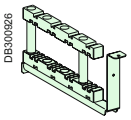
Linergy BS - Horizontal flat busbars up to 2500 A

Flat busbars

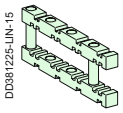
Installation in Spacial SFM compartmentalised		Hasta 1600 A				Hasta 2500 A			
Copper bar, 2000 mm length									
Permissible current for an ambient temp. of 35°C around the switchboard		750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1	1	2	2	1	2	2	2
Total number of vertical modules (50 mm)		3							
Nº cat.		**04536**	**04538**	**04536**	**04538**	**04548**	**04545**	**04546**	**04548**

Busbar supports





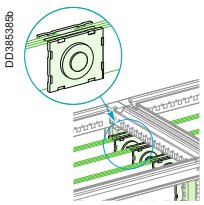
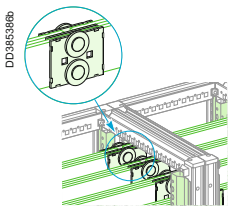
Fixed support



Free support

In cubicle SFM: W600/800 with 75 mm distance between bars	Characteristics		2 fixed supports for Spacial SF wide cublicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.						
	Number of supports depending on Icw (kA rms/1 s)	≤ 15	2						
		≤ 25	2+1	2					
		≤ 30	2+1		2				
		≤ 40	2+1			2			
		≤ 50	-	2+1			2		
		≤ 60	-			2+1			
		≤ 65	-			2+1			
		≤ 75	-			2+2	2+1		
		≤ 85	-			-		2+1	
	Cat. no.	Fixed support	**NSYMBHS4** (D400) or **NSYMBHS5** (D500)						
		Free support	**04662**						
In busbar chamber SF: W300/400 with 75 mm distance between bars	Number depending on Icw (kA rms/1 s)	≤ 30	1						
		≤ 50	1+1			1			
		≤ 85	-			2			
	Cat. no. depending on depth	Fixed support	**NSYBHS600** (D600) or **NSYBHS800** (D800)			**NSYBHS600** (D600) or **NSYBHS800** (D800)			
		Free support	**04662**			**04662**			

Joints

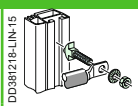
Installation in Spacial SFP		Up to 1600 A				Up to 2500 A			
		1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase		
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Sliding joints with self-breaking lock nut		**04640**			**04641**				
									
Cat. no.		**04640**	**04641**	**04640**	**04641**	**04641**	**04640**	**04640**	**04641**

Note: *When installed at the bottom of a cubicle, the busbar must be partitioned.*

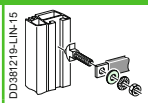
Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems
Accessories

Accessories



Linergy screw



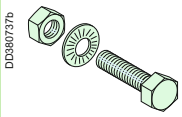
Plain washer



Identification

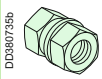
Linergy screw	Characteristics		Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.
	Cat. no.	25 mm length 39 mm length	see the table "Connections on Linergy LGYE & LGY" below
Steel plain washers	Characteristics		M8 sold in lots of 20.
	Cat. no.	ext. Ø20 mm	**04772**
		ext. Ø24 mm	**04773**
		ext. Ø28 mm	**04774**
Brass plain washers	Characteristics		M8 sold in lots of 20 for connection of ⩽ 25 mm² lugs to Linergy.
	Cat. no.	ext. Ø20 mm	**04775**
Identification	Characteristics		12 clip-on supports + N, L1, L2, L3, PE, PEN labels.
	Cat. no.		**04794**
	Characteristics		Linergy LGYE busbar screw plate kit after sales service.
	Cat. no.		**01130**

M8 bolts



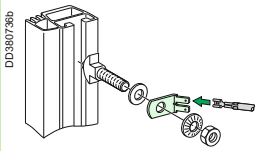
Linergy BS, 20 bolts 8.8 class	Characteristics		Set of 20 bolts + 20 nuts + 40 contact washers.
	Cat. no.	M8 x 20	**04782**
		M8 x 25	**04783**
		M8 x 30	**04784**
		M8 x 35	**04785**
		M8 x 40	**04786**
		M8 x 45	**04787**
		M8 x 50	**04788**

Torque nuts



20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Cat. no.	**04759**

Voltage tap-offs



20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	Cat. no.	**04229**

Connections on Linergy LGYE & LGY

InA (A)		Connection on Linergy	Utilisation	Cat no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Linergy screw	Recommended	**04766**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
800 to 1250	5 mm thick bar	Use the 25 mm Linergy screw	Recommended	**04766**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
		Use the flat plate screw with 2 studs	Possible	**04768**	
1600 to 2500	5 or 10 mm thick bar	Use the flat plate screw with 2 studs	Recommended	**04768**	
		Use the 39 mm Linergy screw	Possible	**04767** (1)	
3200 to 4000	10 mm thick bar	Use the flat plate screw with 3 studs	Recommended	**04769**	

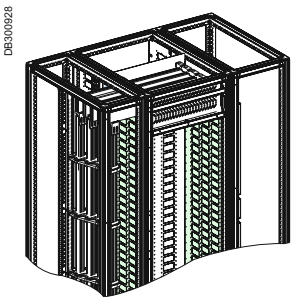
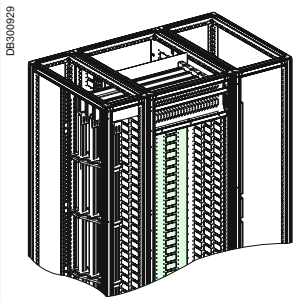
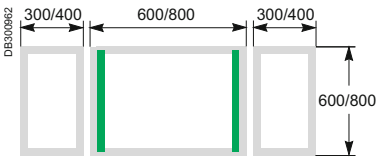
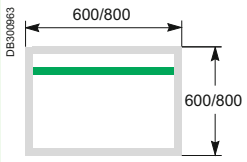
(1) ***04767*** *is only compatible with Linergy LGY.*

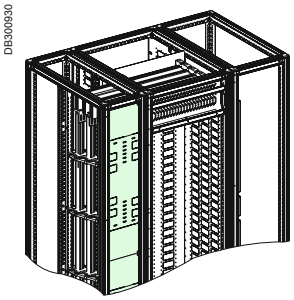
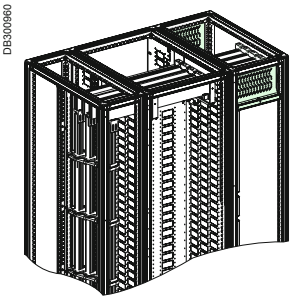
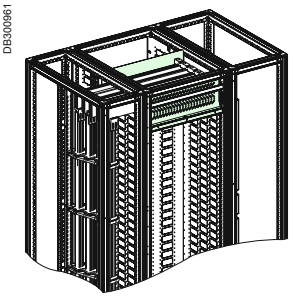
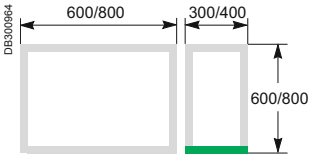
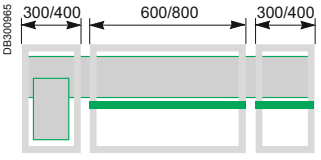
Compartmentalised enclosure for Motor Control Centres

Partitioning Form 2

Separation of busbars from the functional units:
- protection against contact with live parts upstream of the outgoing circuits,
- protection against penetration of foreign solid bodies.

Form 2 partitioning

	Lateral partitioning	Rear partitioning
		
Diagramas		
Características	■ Set of 2 vertical metallic separation which guarantees good insulation of the sides of the compartment (IP2x). ■ Top and bottom ends have knock-outs for installation of horizontal busbars and pre-cuts of 40 x 70 mm for cable-glands using grommets ref **01215** when Form 4b is required. ■ Partition extension required for D800 mm. ■ Direct fixing on structure of enclosure.	■ Vertical metallic separation which guarantee good insulation of the back of the compartment (IP2x). ■ Pre-cuts of 40 x 70 mm for cable-glands using grommets ref **01215** when Form 4b is required on back installation. ■ Direct fixing on structure of enclosure.
Nº cat.	D600: **NSYMSC206** D800: **NSYMSC206** + **NSYMSC202**	W600: **NSYMBC206** W800: **NSYMBC208**

	Front and Rear busbar barrier	Horizontal busbar barriers			
					
Diagramas					
		W300	W400	W600	W800
Características	■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends ■ Rear protection is realized by the association of the back panel of the enclosure.	■ Set of 2 slotted barriers (front & rear), plus horizontal panel to be used when busbars cross the cable chamber. ■ The set can be used to partition horizontal busbar at the top or bottom of the cubicle. ■ The space required for the busbars is not increased.		■ Horizontal protection by the association of slotted front barrier and horizontal partition for efficient natural convection in the switchboard.	
Nº cat.	W300: **06540** W400: **NSYVPF2B4**	D600: **06561** D800: **06563**	D600: **NSYHPF2B3M4** D800: **NSYHPF2B3M4**	D400: **NSYHPF2B3M64** D500: **NSYHPF2B3M65**	D400: **NSYHPF2B3M84** D500: **NSYHPF2B3M85**

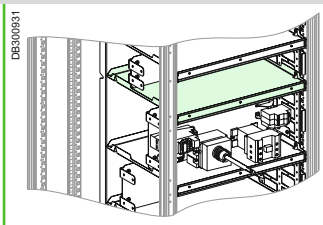
Note: *when the busbars are at the bottom of the cubicle, gland plates are mandatory.*

Compartmentalised enclosure for Motor Control Centres
Partitioning Form 3

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.
- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

Form 3 partitioning

Horizontal partitioning



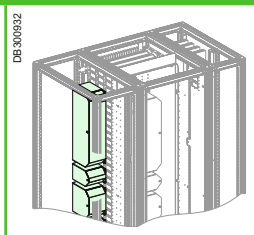
	W600	W800
Characteristics	■ A horizontal metal partition to separate functional units from one another and guarantees insulation of the compartments (IP2x). ■ It is fixed to the front uprights of the enclosure and the side partitions. ■ Quick fixing system with intermediate crossbar to ensure the degree of protection of the partial doors. ■ Order by multiples of 2 (2, 4, 6…).	
Cat. no.	D400: **NSYMTR64** D500: **NSYMTR65**	D400: **NSYMTR84** D500: **NSYMTR85**

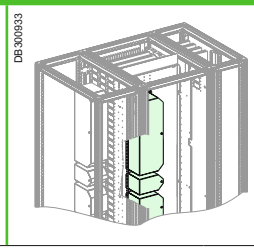
Compartmentalised enclosure for Motor Control Centres

Partitioning Form 4

Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit:
- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Form 4b boxes





Characteristics	■ Metallic plain box composed by 2 parts that can be easily installed for side or rear connection to separate the terminals for external conductors of the functional unit. ■ Quick fixing system on the side or on the back partition. ■ Available in 6 heights:					
Cat. no.	3M: **NSYBF4B3M**	4M: **NSYBF4B4M**	5M: **NSYBF4B5M**	6M: **NSYBF4B6M**	8M: **NSYBF4B8M**	9M: **NSYBF4B9M**

Other universal common accessories

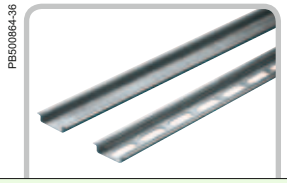
Rail support bracket



Characteristics	■ Bracket for fixing rails at an angle of 45°. ■ Reference by unit. Order by multiples of 10 (10, 20, 30…).
Cat. no.	**NSYFB45**

Mounting & Cable management acc.





Cat. no.	**See on Universal Enclosure catalogue**

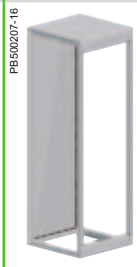
Compartmentalised enclosure for Motor Control Centres

Selection of Spacial enclosures

Common characteristics

- Spacial SFM framework with compartmentalised system that can be combined side-by-side with busbar and cable chambers.
- Receive the cover panels and partial doors IP54.
- **Material:** steel.
- **Finish:** painted with epoxy-polyester resin.
- **Colour:** RAL 7035 grey.
- Possibility to order it assembled or kit supply.

Compartmentalised enclosure

		Assembled supply		Kit supply	
					
		W600	**W800**	**W600**	**W800**
Characteristics		■ Structure: Top and bottom frame and vertical uprights H2000 mm. ■ Useful height for doors H1800 mm /36M, when are installed the top and bottom fix panels for modularity (mandatory for installation of partial doors). ■ Equipped with removable roof, external fixing rear panel and top & bottom fixed panels (H100 mm) to allow modularity of partial doors. ■ 4 dimensions available.			
Cat. no.		D600: **NSYSF20660M** D800: **NSYSF20680M**	D600: **NSYSF20860M** D800: **NSYSF20880M**	-	-
	Vertical uprights H2000 mm	-	-	**NSYSFV20**	**NSYSFV20**
	Top & Bottom frame with roof	-	-	D600: **NSYSFC66** D800: **NSYSFC68**	D600: **NSYSFC86** D800: **NSYSFC88**
	Rear panel	-	-	**NSYBP206**	**NSYBP208**
	Fixed panels for modularty H100 mm /2M (intermediate crossbars included)	-	-	See table below	See table below

External claddings

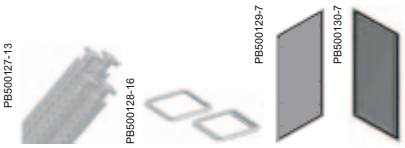
	Front Fix panel for modularity		Frontal partial doors		Side panels	
						
	W600	**W800**	**W600**	**W800**	**D600**	**D800**
Characteristics	■ Top & bottom fix panel to obtain modularity required to install partial doors. ■ If there is no horizontal partitioning on top or bottom, the intermediate crossbar has to be ordered separately, ref. **NSYMIC6** (W600 mm) or **NSYMIC8** (W800 mm). ■ 2M fixed panels are delivered as standard for the compartmentalized enclosure. Possibility to order it separately for Spacial SFM framework in kit supply. ■ Available in 2 heights(M) (1).		■ Plain partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework by means of hinges. ■ Drilling template for uprights ref. **NSYMDT** (Only 1 drilling template by order is needed). ■ Opening to right or left. ■ 1, 2 or 4 locking points according different heights. ■ Possibility to replace locking insert (see page 363). ■ Available in following heights(M) (1).		■ Set of 2 side panels fixed to the outside of the enclosure. ■ Captive screws pre-mounted on the panels. ■ Available in 2 depths (mm).	
Cat. no.	2M: **NSYMFP2M6** 5M: **NSYMFP5M6**	2M: **NSYMFP2M8** 5M: **NSYMFP5M8**	3M: **NSYMPD3M6** 4M: **NSYMPD4M6** 5M: **NSYMPD5M6** 6M: **NSYMPD6M6** 8M: **NSYMPD8M6** 9M: **NSYMPD9M6** 12M: **NSYMPD12M6** 16M: **NSYMPD16M6** 18M: **NSYMPD18M6** 20M: **NSYMPD20M6** 24M: **NSYMPD24M6**	3M: **NSYMPD3M8** 4M: **NSYMPD4M8** 5M: **NSYMPD5M8** 6M: **NSYMPD6M8** 8M: **NSYMPD8M8** 9M: **NSYMPD9M8** 12M: **NSYMPD12M8** 16M: **NSYMPD16M8** 18M: **NSYMPD18M8** 20M: **NSYMPD20M8** 24M: **NSYMPD24M8**	**NSY2SP206**	**NSY2SP208**

(1) Heights according modularity (1M = 50 mm).

Compartmentalised enclosure for Motor Control Centres

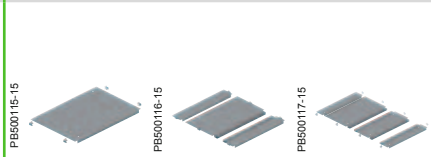
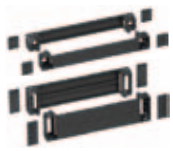
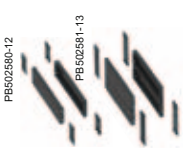
Selection of Spacial enclosures for Motor Control Centres

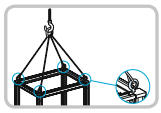
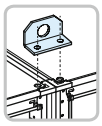
Busbar & cabling chambers

		Assembled supply		Kit supply	
					
		W300	**W400**	**W300**	**W400**
Characteristics		■ Structure: Top and bottom frame and vertical uprights H2000 mm. ■ Equipped with removable roof, external fixing rear panel and front plain door with 4 point locking system with handle and DB 5 mm insert. ■ 4 dimensions available.			
Cat. no.		D600: **NSYSF20360** D800: **NSYSF20380**	D600: **NSYSF20460** D800: **NSYSF20480**	-	-
	Vertical uprights H2000 mm	-	-	**NSYSFV20**	**NSYSFV20**
	Top & Bottom frame with roof	-	-	D600: **NSYSFC36** D800: **NSYSFC38**	D600: **NSYSFC46** D800: **NSYSFC48**
	Rear panel	-	-	**NSYBP203**	**NSYBP204**
	Front plain door	-	-	**NSYSFD203**	**NSYSFD204**

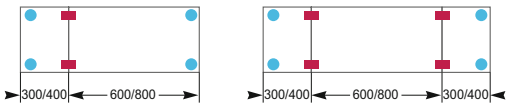
Compartmentalised enclosure for Motor Control Centres
Spacial accessories

Other composition accessories

			Cable-gland plates			Plinth (100 mm height)		Plinth (200 mm height)	
									
H (mm)	W (mm)	D (mm)	Plain	1 entry	2 entries	Front kit	Side kit	Front kit	Side kit
2000	600	600	**NSYEC66**	**NSYEC661**	**NSYEC662**	**NSYSPF6100**	**NSYSPS6100**	**NSYSPF6200**	**NSYSPS6200**
2000	600	800	**NSYEC68**	**NSYEC681**	**NSYEC682**	**NSYSPF6100**	**NSYSPS8100**	**NSYSPF6200**	**NSYSPS8200**
2000	800	600	**NSYEC86**	**NSYEC861**	**NSYEC862**	**NSYSPF8100**	**NSYSPS6100**	**NSYSPF8200**	**NSYSPS6200**
2000	800	800	**NSYEC88**	**NSYEC881**	**NSYEC882**	**NSYSPF8100**	**NSYSPS8100**	**NSYSPF8200**	**NSYSPS8200**
2000	300	600	**NSYEC36**	**NSYEC361**	-	**NSYSPF3100**	**NSYSPS6100**	**NSYSPF3200**	**NSYSPS6200**
2000	300	800	-	**NSYEC381**	-	**NSYSPF3100**	**NSYSPS8100**	**NSYSPF3200**	**NSYSPS8200**
2000	400	600	**NSYEC64**	**NSYEC461**	-	**NSYSPF4100**	**NSYSPS6100**	**NSYSPF4200**	**NSYSPS6200**
2000	400	800	**NSYEC84**	**NSYEC481**	-	**NSYSPF4100**	**NSYSPS8100**	**NSYSPF4200**	**NSYSPS8200**

	Coupling kit	4 lifting eyebolts	4 lifting brackets	Earthing cable (3)
				
Characteristics	■ Side-by-side combination. ■ Back-to-back combination (2).	■ Use a set of lifting eyebolts rings for each framework (4).	■ When two cubicles with devices have been combined, use a lifting brackets.	■ For NSYEL166D8: Length 160 mm, Section 6 mm², Terminal 8.3 mm. ■ For NSYEL3525D8: Length 350 mm, Section 25 mm², Terminal 8.3 mm.
Cat. no.	**NSYSFBK19**	**NSYSFEB**	**NSYSFELB**	**NSYEL166D8 / NSYEL3525D8**

(2) Back to back association must be shipped individually and combined during on-site installation.
(3) An earthing braid must be installed between the roof and the frame.
(4) For 2 columns: For 3 columns:



● *Lifting eyebolts*
■ *Lifting brackets*

For more than 3 colomuns, lenghts > 1600 mm, see Lifting bars options on Universal Enclosures catalogue.

Locks for partial doors

Possibility to replace standard insert by one from the table below (CRN range) and by keeping the standard latch.

Type of lock		Insert references	Key references	
⌾	3 mm double bar	**NSYTDBCRN***		**NSYLDB5**
□	6 mm	**NSYTC6CRN**		**NSYLC7**
□	7 mm	**NSYTC7CRN**		**NSYLC7**
□	8 mm	**NSYTC8CRN**		**NSYLC8**
△	6.5 mm	**NSYTT6CRN**		**NSYLT8**
△	7 mm	**NSYTT7CRN**		**NSYLT8**
△	8 mm	**NSYTT8CRN**		**NSYLT8**

** Delivered with 1 metal key.*

Compartmentalised enclosure for Motor Control Centres

Standard IEC 61439

Both the point of arrival of energy and a device for distribution to the site applications, the LV switchboard is the intelligence of the system, central to the electrical installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety.
Its definition, design and installation are based on precise rules; there is no place for improvisation. The IEC 61439 standard aims to better define "low-voltage switchgear and controlgear assemblies", ensuring that the specified performances are reached. It specifies in particular:

- the responsibilities of each player, distinguishing those of the original equipment manufacturer; the organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly
- the design and verification rules, constituting a benchmark for product certification

All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard ensures the safety and reliability of the installation.

The main 10 functions of standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests - and routine verifications on each panel from the Panel Builder to achieve 3 basic goals: safety, continuity of service and compliance with end-user requirements.

Safety

■ **Voltage stresses withstand capability**
To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.
■ **Current-carrying capability**
To protect against burns and to withstand temperature rise:
□ when any circuit is continuously loaded, alone, to the specified current
□ when the assembly is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).
■ **Short-circuit withstand capability**
To withstand the stresses resulting from the prospective short-circuit current and from the associated data (High forces between conductors, temp. rise in a very short time, air ionization, overpressure).
■ **Protection against electric shock**
□ Hazardous-live-parts not to be accessible (basic protection).
□ Accessible conductive parts not to become hazardous-live (fault protection).
■ **Protection against risk of fire or explosion**
□ Resistance to internal glowing elements.
Note: Protection of persons, and optional protection of the assembly, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.

Continuity of service

■ **Maintenance and modification capability**
Capability to preserve continuity of supply without impairing safety during assembly maintenance or modification.
□ Electrical condition of the assembly or various circuits.
□ Speed of exchange of the functional units.
□ Test facilities…
■ **Electro-Magnetic compatibility**
To properly function (immunity) and not to generate EM disturbances (emission) in specified environmental conditions:
□ Industrial networks or locations (Environment A).
□ Domestic, commercial, and light industrial locations (Environment B).

Compliance with end-user requirements

■ **Capability to operate the electrical installation**
To properly function, according to:
□ the electrical diagram of the overall system and related information (voltages, coordination…),
□ the specified operating facilities (e.g. free or restricted access to Man Machine Interfaces, isolation of the outgoing circuits…).
■ **Capability to be installed on site**
□ To withstand handling, transport, storage… and installation constraints.
□ Capability to be erected and connected (type of enclosure, type, material and cross sectional areas of external conductors).
■ **Protection of the assembly against mechanical and atmospheric environmental conditions**
□ Presence of water or solid foreign bodies (IP according to IEC 60529).
□ External mechanical impacts (optional IK according to IEC 62262).
□ Indoor or outdoor installation (humidity, UV).

Compartmentalised enclosure for Motor Control Centres

Enclosure standards
IEC 62208 and EN 50298

Standards IEC 62208 and EN 50298
Empty enclosures for low-voltage switchgear and controlgear assemblies

General rules for empty enclosures

Standards IEC 62208 and EN 50298 lay down definitions, classifications, characteristics and test requirements for the enclosures used for assemblies.
They apply to empty enclosures before installation of the devices by the panel builder, as supplied by the manufacturer.
They apply to one-piece enclosures and to enclosures supplied in kit form.

Type tests

1 - Static load
2 - Hoisting
3 - Axial loads of metal inserts
4 - IK code
5 - IP code
6 - Thermal stability
7 - Resistance to heat
8 - Resistance to abnormal heat and to fire
9 - Dielectric strength
10 - Protective-circuit continuity
11 - Weather resistance
12 - Corrosion resistance
13 - Marking

Thalassa PHD
Spacial S3HD - SFHD

Outdoor Heavy Duty enclosures
Introduction

New

> Thalassa PHD is suitable for outdoor public areas thanks to its multiple virtues:
- pressure and shock resistant (IEC 61439-5: 2010),
- anti-posting thanks to its special ribbed-surface door,
- insulated (ready to be Class II according to IEC 61439-1: 2011).

PB502630-28



> Spacial S3HD and SFHD are designed for outdoor private areas. They are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:1999).

PB502662-28

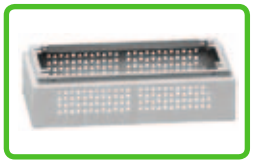


PB502681-34



Tough
PHD: Heavy Duty polyester reinforced with a double layer of fiberglass. Ultra-resistant, anti-vandalism.

PB502673-29



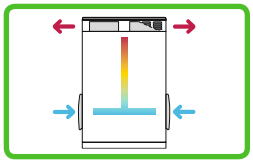
Heavy Duty accessories
Dedicated accessories to resist outdoor, harsh environments: the all-new, slim fanbox (see page 370 and 372).

PB502648-11



Simplicity
Installation simplified: easy to be lifted with up to 1000 kg-loaded equipment. HD lifting accessories also available.

DB300824-120



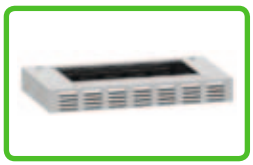
Thermal management solutions
3 ventilation architectures studied to help protect the equipment installed inside from overheating and humidity.

PB502662-30



Fully equipped
Standard, pre-installed equipment includes:
- a curved canopy to avoid water stagnation
- a door retainer to keep the door open even with strong wind or when a vehicle passes by
- an aluminium cable gland plate to easily drill holes and avoid corrosion
- a document pocket to stock your documents in a practical place.

PB502670-29



Upper ventilation module
The newly engineered roof ventilation accessory helps to prevent creation of condensation (one of the causes of corrosion).

PB502674-25



Anti-vandalism
PHD and SFHD: the handle with keylock and additional padlock hole (padlock not included) helps to secure the equipment inside. It is standard equipment.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 480 for details or consult our web site www.schneider-electric.com

Outdoor Heavy Duty enclosures
Characteristics

New



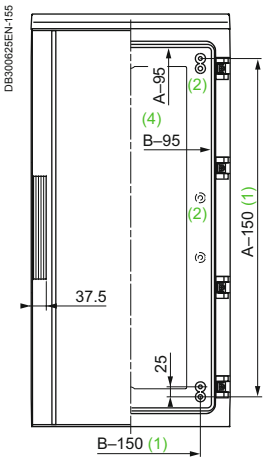
Characteristics	Polyester outdoor Heavy Duty enclosures		Steel outdoor Heavy Duty enclosures	
	Wall-mounting enclosure	**Floor-standing enclosure**	**Wall-mounting enclosure**	**Floor-standing enclosure**
	Outdoor Heavy Duty (HD) enclosures made of polyester insulating material. Suitable to be installed in public areas thanks to its features: ■ anti-pressure and shock resistant ■ anti-posting ■ insulated.		Outdoor Heavy Duty (HD) enclosures made of coated steel. Suitable to be installed in private areas with harsh environments thanks to its capacity to resist: ■ corrosion (up to C4H level according ISO 12944:1999) ■ UV.	
Material	HD Polyester reinforced with a double layer of fiberglass		HD steel with anti-corrosive coating	
Finish	-		Structured finish, 100 % polyester powder	
Colour	RAL 7035 grey		RAL 7035 grey	
Conditions of use	Outdoor and/or harsh environments		Outdoor and/or harsh environments	
Ingress protection rating	IP65	IP55	IP66	IP55
Mechanical protection rating	IK10		IK10	
Standards	IEC 61439-5: 2010, IEC 62208: 2011, IEC 61439-1: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009		IEC 61439-5: 2010, IEC 62208: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009, ISO 12.944: 1999 (C4H)	
Certifications	See table page 378		See table page 378	
Fixing	On wall by means of optional wall fixing accessory	2 options for installation on floor: ■ with floor fixing kit **NSYMF2PLAZ4** or **NSYMF2PLAZ6** for integrated plinth (50 mm) ■ with additional ZZ plinths (ventilated or non-ventilated) available as accessory (200 mm) (see page 371)	■ On wall by means of optional stainless steel wall fixing lugs ■ On post by means of optional HD post-fixing device	■ Directly on floor by means of optional plinth (see page 373)
Maximum transportable load	500 kg		200 kg	1000 kg
Other characteristics	■ Fire resistant (EN 1794-2:2011) ■ Lifting possible from top with eyebolt accessory ■ New dedicated ventilation solutions to be integrated in roof, lateral or plinth. 3 ventilation architectures proposed (see page 376 et 377)		New dedicated ventilation solutions to be integrated in roof, side or plinth	New dedicated ventilation solutions to be integrated in roof, side or plinth
Options	Plain door or ribbed door		-	
Supply	■ Curved canopy ■ Handle with keylock (1242E type) and padlock ■ Door retainer ■ Plastic document pocket (A4 size)	■ Curved canopy ■ Integrated plinth ■ Handle with keylock (1242E type) and padlock ■ Aluminium cable gland plate ■ Door retainer ■ Plastic document pocket (A4 size)	■ Curved canopy ■ 3-mm double-bar lock ■ Plastic document pocket (A4 size) ■ Door retainer ■ Aluminium cable gland plate	■ Curved canopy ■ Rear panel ■ Handle with keylock (1242E type) and padlock ■ Aluminium cable gland plate ■ Door retainer ■ Plastic document pocket (A4 size)

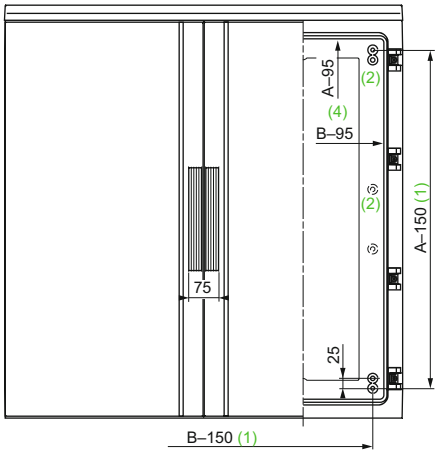
Thalassa PHD
Spacial S3HD - SFHD

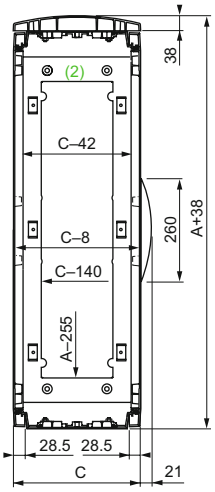
Outdoor Heavy Duty enclosures
Dimensions

New

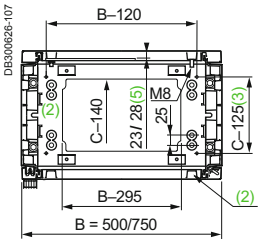
Enclosure with ventilated canopy

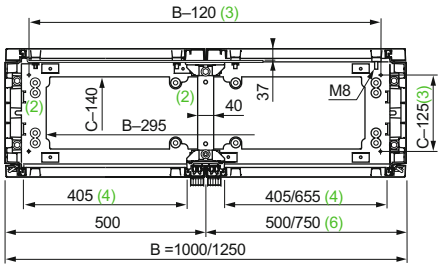






Common top views



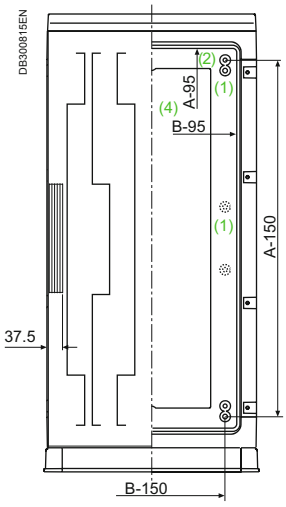


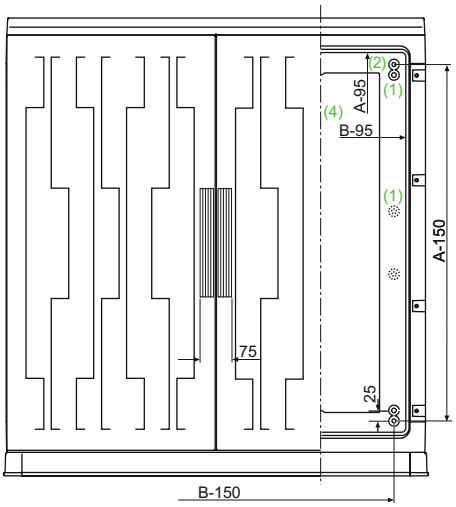
Life Is On Schneider Electric

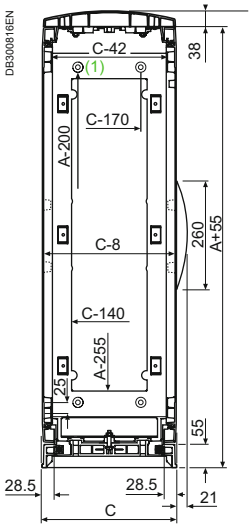
Outdoor Heavy Duty enclosures
Dimensions

New

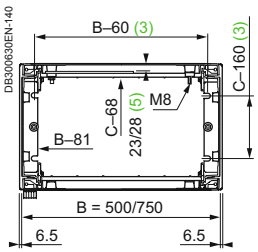
Enclosure with ventilated canopy and plinth-type open bottom part

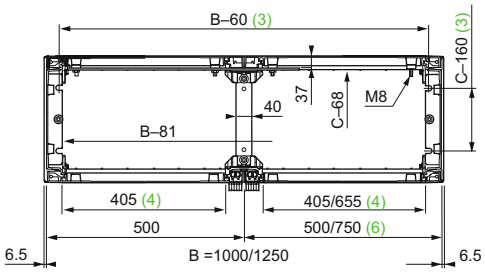






Common top views





(1) 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
*(2) Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:*
– On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
– On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.
(3) Dimensions for fixing on the floor or on a plinth.
(4) Entry dimensions, door open.
(5) Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
(6) With a width of 1250 mm in standard supply, 500-mm door on the left and 750-mm door on the right.

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Outdoor Heavy Duty enclosures

Selection guide and accessories

New

Polyester outdoor HD enclosures


PB502645-21

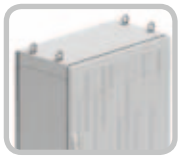

PB502649-21


PB502648-8


PB502667-14


PB502690-27

Characteristics				Polyester enclosure		Eyebolts	Wall fixing accessory	Floor fixing kit
				Anti-posting door	Plain door			
						Top lifting accessory for polyester outdoor Heavy Duty enclosure. ■ Maximum load: 500 kg.	Wall fixing support for polyester outdoor Heavy Duty enclosure. No change in ingress protection rate. ■ Maximum load: 180 kg.	To fix the enclosure on the floor in a correct way. ■ Certification: □ Class II insulation following IEC 61439-1 □ IP55 following IEC 50529 □ Infrastructure standard following IEC 61439-5.
Material						Galvanised cast steel	Steel	Steel
Finish						-	Anti-corrosive coating	Insulating coating
Colour						-	-	-
Installation						-	-	On dry concrete
Supply						4	4	1
Height (mm)	**Width (mm)**	**Depth (mm)**	**No. of doors**	**References**				
Wall-mounting enclosure								
538	500	320	1	**NSYPHDT553**	**NSYPHDT553P**	-	**NSYFMPHD**	-
788	500	320	1	**NSYPHDT753**	**NSYPHDT753P**	-	**NSYFMPHD**	-
Floor-standing enclosure								
843	750	420	1	**NSYPHDZT774**	**NSYPHDZT774P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
	750	620	1	**NSYPHDZT776**	**NSYPHDZT776P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
1093	500	420	1	**NSYPHDZT1054**	**NSYPHDZT1054P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
	750	420	1	**NSYPHDZT1074**	**NSYPHDZT1074P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
1343	500	420	1	**NSYPHDZT1254**	**NSYPHDZT1254P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
	750	420	1	**NSYPHDZT1274**	**NSYPHDZT1274P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	1	**NSYPHDZT1276**	**NSYPHDZT1276P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
	1250	420	2	**NSYPHDZT12124**	**NSYPHDZT12124P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	2	**NSYPHDZT12126**	**NSYPHDZT12126P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
1593	750	420	1	**NSYPHDZT1574**	**NSYPHDZT1574P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	1	**NSYPHDZT1576**	**NSYPHDZT1576P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
	1250	420	2	**NSYPHDZT15124**	**NSYPHDZT15124P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	2	**NSYPHDZT15126**	**NSYPHDZT15126P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
2093	750	420	2*	**NSYPHDZT2074**	**NSYPHDZT2074P**	**NSYPLHD**	-	**NSYMF2PLAZ4**

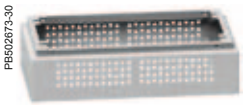

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PB502892-31


PB502893-32

** Vertical doors.*

Outdoor Heavy Duty enclosures
Selection guide and accessories

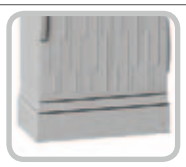

PB502673-30


PB502684-21


PB500072-16


PB502670-31


PB502664-25

	Ventilated ZZ plinths 200 mm**	ZZ plinth 200 mm**	Plain mounting plate	Roof ventilation module	Anti-burglary accessory
	Height: 200 mm. The front parts cannot be removed. Includes a polyester anti-insect filter.	Height: 200 mm. The front parts cannot be removed. It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.	The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).	Ventilation module to enable airing from the top of the enclosure (H = 95 mm) with insect protection.	Anti-burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2. It keeps the Insulation Class II according to IEC 61439-1:2011.
	Ultra-reinforced polyester	Ultra-reinforced polyester	Galvanised sheet-steel	Steel with anti-corrosive coating	Steel with anti-corrosive coating
	-	-	-	Structured finish, 100 % polyester powder	Structured finish, 100 % polyester powder
	RAL 7035 grey	RAL 7035 grey	-	RAL 7035 grey	RAL 7035 grey
	-	-	■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 200) ■ In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates	-	Easy installation on the outside of the enclosure
	1	1	1	1	1
	-	-	**NSYPMM55**	-	-
	-	-	**NSYPMM75**	-	-
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM77**	**NSYPCVR74HD**	**NSYBGN774HD**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPMM77**	**NSYPCVR76HD**	**NSYBGN776HD**
	NSYZZ254VHD	**NSYZZ254G**	**NSYPMM105**	**NSYPCVR54HD**	**NSYBGN1054HD**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM107**	**NSYPCVR74HD**	**NSYBGN1074HD**
	NSYZZ254VHD	**NSYZZ254G**	**NSYPMM125**	**NSYPCVR54HD**	**NSYBGN1254HD**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM127**	**NSYPCVR74HD**	**NSYBGN1274HD**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPMM127**	**NSYPCVR76HD**	**NSYBGN1276HD**
	NSYZZ2124VHD	**NSYZZ2124G**	**NSYPMM1212**	**NSYPCVR124HD**	**NSYBGN12124HD**
	NSYZZ2126VHD	**NSYZZ2126G**	**NSYPMM1212**	**NSYPCVR126HD**	**NSYBGN12126HD**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM157**	**NSYPCVR74HD**	**NSYBGN1574HD**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPMM157**	**NSYPCVR76HD**	**NSYBGN1576HD**
	NSYZZ2124VHD	**NSYZZ2124G**	**NSYPMM1512**	**NSYPCVR124HD**	**NSYBGN15124HD**
	NSYZZ2126VHD	**NSYZZ2126G**	**NSYPMM1512**	**NSYPCVR126HD**	**NSYBGN15126HD**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPMM207** or 2 x **NSYPMM107**	**NSYPCVR74HD**	**NSYBGN2074HD**
	 PB502630-22	 PB502630ns-24		 PB502630-22	 PB502694-22

*** The coupling kit NSYMUPLA••• is not applicable for enclosures using ZZ or ZH type plinths.*

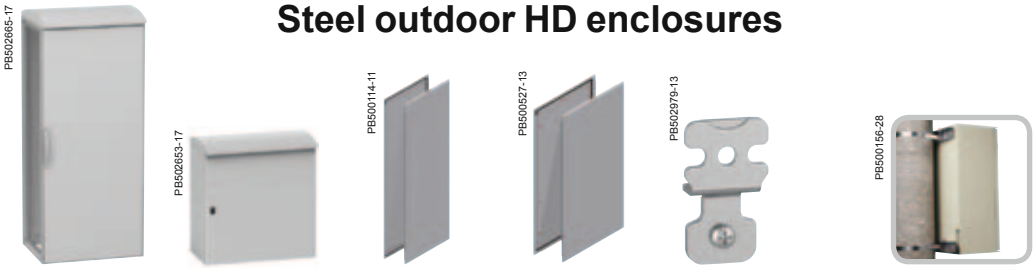
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Outdoor Heavy Duty enclosures

Selection guide and accessories

New

Steel outdoor HD enclosures



Characteristics			Steel enclosure	Side panels		Stainless steel wall fixing lugs	Heavy duty post-fixing device
				For floor-standing enclosures		For wall-mounting enclosures	
				Side panel fixing for SFHD.		Horizontal position only. Do not use for dynamic loads.	Rail fixed on the inserts in the rear of the enclosure with 8-mm screws.
Material				Steel with anti-corrosive coating		Stainless-steel AISI 304L	Steel
Finish				Structured finish, 100 % polyester powder		-	Anti-corrosive coating
Colour				RAL 7035 grey		-	-
Installation				-		Mounted directly on the rear of the enclosure, in horizontal position	On posts with a max. circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm)
Maximum load				-		250 kg	100 kg
Supply				2 side panels with fixing elements and sealing gasket		Set of 4 wall-fixing lugs with fixings and gasket	1
Height (mm)	**Width (mm)**	**Depth (mm)**		**External fixing**	**Internal fixing**		
Wall-mounting enclosure							
343	200	180	**NSYS3HD3215**	-	-	**NSYAEFPFXSC**	-
448	300	230	**NSYS3HD4320**	-	-	**NSYAEFPFXSC**	**NSYSFPSC30HD**
548	400	230	**NSYS3HD5420**	-	-	**NSYAEFPFXSC**	**NSYSFPSC40HD**
653	400	280	**NSYS3HD6425**	-	-	**NSYAEFPFXSC**	**NSYSFPSC40HD**
658	600	330	**NSYS3HD6630**	-	-	**NSYAEFPFXSC**	**NSYSFPSC60HD**
753	500	280	**NSYS3HD7525**	-	-	**NSYAEFPFXSC**	**NSYSFPSC50HD**
858	600	330	**NSYS3HD8630**	-	-	**NSYAEFPFXSC**	**NSYSFPSC60HD**
862	800	430	**NSYS3HD8840**	-	-	**NSYAEFPFXSC**	**NSYSFPSC80HD**
1062	600	430	**NSYS3HD10640**	-	-	**NSYAEFPFXSC**	**NSYSFPSC60HD**
	800	430	**NSYS3HD10840**	-	-	**NSYAEFPFXSC**	**NSYSFPSC80HD**
Floor-standing enclosure							
1262	600	430	**NSYSFHD12640**	**NSY2SPHD124**	**NSY2SPIHD124**	-	-
	800	430	**NSYSFHD12840**	**NSY2SPHD124**	**NSY2SPIHD124**	-	-
	1200	430	**NSYSFHD1212402D**	**NSY2SPHD124**	**NSY2SPIHD124**	-	-
1281	600	630	**NSYSFHD12660**	**NSY2SPHD126**	**NSY2SPIHD126**	-	-
	800	630	**NSYSFHD12860**	**NSY2SPHD126**	**NSY2SPIHD126**	-	-
	1200	630	**NSYSFHD1212602D**	**NSY2SPHD126**	**NSY2SPIHD126**	-	-
1662	800	430	**NSYSFHD16840**	**NSY2SPHD164**	**NSY2SPIHD164**	-	-
	1200	430	**NSYSFHD1612402D**	**NSY2SPHD164**	**NSY2SPIHD164**	-	-
1681	600	630	**NSYSFHD16660**	**NSY2SPHD166**	**NSY2SPIHD166**	-	-
	800	630	**NSYSFHD16860**	**NSY2SPHD166**	**NSY2SPIHD166**	-	-
	1200	630	**NSYSFHD1612602D**	**NSY2SPHD166**	**NSY2SPIHD166**	-	-
2062	800	430	**NSYSFHD20840**	**NSY2SPHD204**	**NSY2SPIHD204**	-	-

Outdoor Heavy Duty enclosures
Selection guide and accessories


PB500461-13


PB502671-18


PB502672-13


PB502484-22


PB502486-19


PB500072-16


PB502670-20

	Heavy Duty padlockable double lock	Stainless-steel plinths 200 mm Ventilated plinths		Stainless-steel plinths 200 mm Standard plinths		Plain mounting plate	Roof ventilation module
	For wall-mounting enclosures	Front and rear kit	Lateral kit	Front and rear kit	Lateral kit		
	Easy mounting instead of the standard lock.	The front and rear of the plinth consists of 4 corners with 2 panels.	They are fixed to the corner of the plinth by fixing screws.	The front and rear of the plinth consists of 4 corners with 2 panels.	They are fixed to the corner of the plinth by fixing screws.	-	Ventilation module to enable airing from the top of the enclosure (H = 95 mm) with insect protection.
	Zamack	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Galvanised steel	Steel with anti-corrosive coating
	Anti-corrosive coating	Scotch-Brite® brushing				-	Structured finish, 100 % polyester powder
	-	-	-	-	-	-	RAL 7035 grey
	-	■ For wall-mounting enclosure: it is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing hardware and drilling jig ■ For floor-standing enclosure: mounting in the holes for fixing the enclosures to the floor				-	-
	-	-	-	-	-	-	-
	Delivered with 3 mm double-bar metal key	1 kit	1 kit	1 kit	1 kit	1 mounting plate and fixing elements	1
	NSYAEDLPADS3DHD	-	-	-	-	**NSYMM32**	-
	NSYAEDLPADS3DHD	-	-	-	-	-	-
	NSYAEDLPADS3DHD	-	-	-	-	**NSYMM54**	-
	NSYAEDLPADS3DHD	-	-	-	-	**NSYMM64**	-
	NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX3200**	**NSYSPFX6200**	**NSYSPSX3200**	**NSYMM66**	-
	NSYAEDLPADS3DHD	-	-	-	-	**NSYMM75**	-
	NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX3200**	**NSYSPFX6200**	**NSYSPSX3200**	**NSYMM86***	-
	NSYAEDLPADS3DHD	**NSYSPFVX8200**	**NSYSPLVX4200**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYMM88**	**NSYS3CVR84HD**
	NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX4200**	**NSYSPFX6200**	**NSYSPSX4200**	**NSYMM106**	**NSYS3CVR64HD**
	NSYAEDLPADS3DHD	**NSYSPFVX8200**	**NSYSPLVX4200**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYMM108***	**NSYS3CVR84HD**
	-	-	-	**NSYSPFX6200**	**NSYSPSX4200SF**	**NSYMP126**	**NSYSFCVR64HD**
	-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYMP128**	**NSYSFCVR84HD**
	-	**NSYSPFVX12200**	**NSYSPLVX4200SF**	**NSYSPFX12200**	**NSYSPSX4200SF**	**NSYMP1212**	**NSYSFCVR124HD**
	-	**NSYSPFVX6200**	**NSYSPLVX6200SF**	**NSYSPFX6200**	**NSYSPSX6200SF**	**NSYMP126**	**NSYSFCVR66HD**
	-	**NSYSPFVX8200**	**NSYSPLVX6200SF**	**NSYSPFX8200**	**NSYSPSX6200SF**	**NSYMP128**	**NSYSFCVR86HD**
	-	**NSYSPFVX12200**	**NSYSPLVX6200SF**	**NSYSPFX12200**	**NSYSPSX6200SF**	**NSYMP1212**	**NSYSFCVR126HD**
	-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYMP168**	**NSYSFCVR84HD**
	-	**NSYSPFVX12200**	**NSYSPLVX4200SF**	**NSYSPFX12200**	**NSYSPSX4200SF**	**NSYMP1612**	**NSYSFCVR124HD**
	-	**NSYSPFVX6200**	**NSYSPLVX6200SF**	**NSYSPFX6200**	**NSYSPSX6200SF**	**NSYMP166**	**NSYSFCVR66HD**
	-	**NSYSPFVX8200**	**NSYSPLVX6200SF**	**NSYSPFX8200**	**NSYSPSX6200SF**	**NSYMP168**	**NSYSFCVR86HD**
	-	**NSYSPFVX12200**	**NSYSPLVX6200SF**	**NSYSPFX12200**	**NSYSPSX6200SF**	**NSYMP1612**	**NSYSFCVR126HD**
	-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYMP208**	**NSYSFCVR84HD**

Anti-vandalism kit for plinths


PB502687-7

NSYSKAV


PB502689-29

NSYKSKAV

Fixings that help to prevent to open the plinths from the outside with standard tools.
■ **Material:** stainless-steel.

References	
16 anti-vandalism screws for stainless-steel plinth	**NSYSKAV**
Key for anti-vandalism screws for stainless-steel plinth	**NSYKSKAV**

** Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions. Example: Plate ref. **NSYMM64** can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm.*
*For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide **NSYSDRSDCR** (more information on page 216).*

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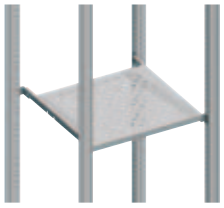
Outdoor Heavy Duty enclosures

Accessories overview

Installation accessories

Mounting acc.

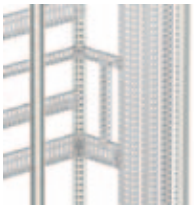
PB600523-30



Polyester: *Page 236*
Steel: *Page 218*

Telequick system

PB502436-27



Polyester: *Page 226*
Steel: *Page 217*

19" accessories

PB500504-20



Steel: *Page 412*

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Outdoor Heavy Duty enclosures
Thermal accessories

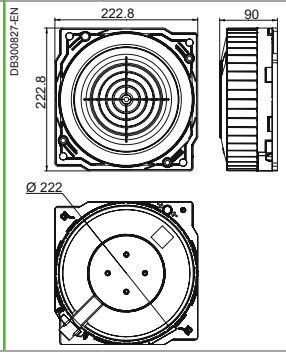
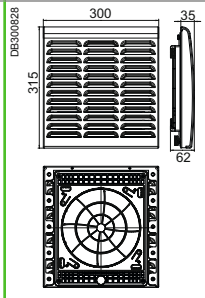
New







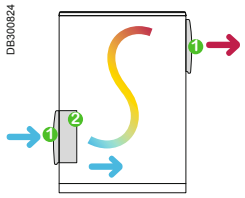


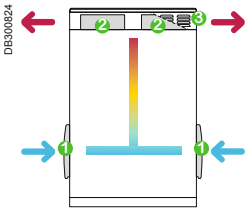
Characteristics	Fanbox		Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille
	■ Free flow rate: 550 m³/h (50/60 Hz). ■ Minimal depth inside the enclosure (90 mm). ■ Allows multiple cooling architectures (see page 376 et 377).		Replacement G3 M1 type synthetic filter for HD metal grille. ■ **Dimensions:** 223 x 223 mm.	Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.	Slim grille (35 mm external depth). Includes a G3 M1 filter.	Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2).
Material	Plastic		-	-	Steel with anti-corrosive coating	Steel with anti-corrosive coating
Finish	-		-	-	Structured finish, 100 % polyester powder	-
Colour	RAL 7016 dark grey		-	-	RAL 7035 grey	-
Ingress protection rating	-		-	-	IP55	-
Mechanical protection rating	-		-	-	IK10	-
Supply	1 (grille not included)		5	1	1 grille delivered with G3 M1 type synthetic filter (223 x 223mm) and fixings	1 kit
	Voltage	**References**	**Reference**	**Reference**	**Reference**	**Reference**
	24 V DC	**NSYCVF550M24FB**	**NSYCAF223T**	**NSYCAF190**	**NSYCAG223LFHD**	**NSYCAAPVHD**
	48 V DC	**NSYCVF550M48FB**				
	115 V AC	**NSYCVF550M115FB**				
	230 V AC	**NSYCVF550M230FB**				
						

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Outdoor Heavy Duty enclosures
Ventilation architectures

New

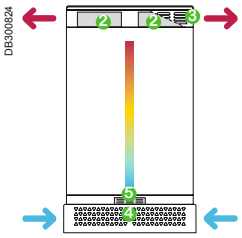




1. *IP55 metal grille*
2. *Fanbox*
3. *Roof ventilated module*
4. *Ventilated plinths*
5. *IP54 grille*

	S-Line				T-Line				
Architecture benefits	■ Most common and competitive architecture ■ Maximum heat dissipation to extract 800 W-1000 W ■ ΔT° of 5°C ■ Easy access to mount-dismount fanbox ■ Air flow in horizontal axis				■ High capacity of extraction calories up to 1500 W ■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module ■ ΔT° of 5°C ■ Air flow in vertical axis				
	IP55 metal grille		**Fanbox**		**IP55 metal grille**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)	**Roof ventilation module**	
	Door	**Side**	**Door**	**Side**	**Door**	**Side**			
Polyester outdoor HD enclosure									
References	**Amount to be installed**				**Amount to be installed**				**References**
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1054	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	**NSYPCVR54HD**
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1254	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	**NSYPCVR54HD**
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
Steel outdoor HD enclosure									
References	**Amount to be installed**				**Amount to be installed**				**References**
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	**NSYS3CVR64HD**
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR64HD**
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR66HD**
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFECA66HD**
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	**NSYSFCVR66HD**
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFECA66HD**
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR126HD**
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR126HD**

Outdoor Heavy Duty enclosures
Ventilation architectures





This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

IP54 outlet grille (**NSYCAG223LPF** + G3 filter **NSYCAF223T**)		**Ventilated plinths**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)		**Roof ventilation module**
Amount to be installed		**References**		**Amount to be installed**		**References**
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**

Amount to be installed		**References**		**Amount to be installed**		**References**
1	1	**NSYSPFVX6200**	**NSYSPSX3200**	-	-	-
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYS3CVR64HD**
1	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYSFCVR64HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFECA66HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFECA66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**

Outdoor Heavy Duty enclosures
Certifications

Test description	Standard	Standard title	Certification	Declaration
POLYESTER				
Thalassa PHD				
IP55, IK10, lifting: 500 kg max. (IP65 for wall-mounting)	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Class II Insulation	IEC 61439-1: 2011	Low-voltage switchgear and controlgear assemblies Part 1: general rules	-	✓
Strength of materials and parts	IEC 61439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	-	✓
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structires of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Fire resistance	EN 1794-2:2011	Vandalism: fire resistance	-	✓
Posting	Internal test	Door antiposting internal test	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 & 13 Double door: types 1, 2, 3, 3R, 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
STEEL				
Spacial SFHD (floor-standing enclosures)				
IP55, IK10, lifting: 1000 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structires of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 3R, 12, 12K Double door: types 1, 3R, 12, 12K	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
Spacial S3HD (wall-mounting enclosures)				
IP66, IK10, lifting: 200 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structires of the 482,6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X. 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-

Outdoor Heavy Duty enclosures
Certifications

Test desription	Standard	Standard title	Certification	Declaration
HD ACCESSORIES				
HD THERMAL MANAGEMENT				
Fanbox				
NSYCVF Series are intended for mounting on the flat surface of a Type 12 or 12K enclosure	UL 508A CAN/CSA-C22.2 No. 14, CAN/CSA C22.2 No. 94-M91 CAN/CSA C22.2 No. 73	Industrial Control Panels Industrial Control Equipment Special Purpose Enclosures Electrically Equipped Machine Tools	●	-
IP55 HD Metal grille (NSYCAG223LFHD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems - part 6: laboratory performance testing methods	●	-
Anti-vandalism kit for HD metal grille (NSYCAAPVHD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Upper ventilation module (PHD / SFHD / S3HD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
HD POLYESTER ENCLOSURES				
Anti-burglary accessory (NSYBGN•••HD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
ZZ plinths (NSYZZ••• & NSYZZ•••VHD)				
ZZ Plinth: IP44 (in conditions of use) Ventilated ZZ Plinth: IP43 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Eyebolts (NSYPLHD)				
Maximum load 500Kg	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	-	✓
HD STEEL ENCLOSURES				
Stainless steel plinths (NSYSPFVX••• / NSYSPLVX••• / NSYSPSX••• / NSYSPSX•••)				
Ventilated plinth: IP20 (in conditions of use) Standard plinth: IP30 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓

Seismic and nuclear enclosures
Introduction

New

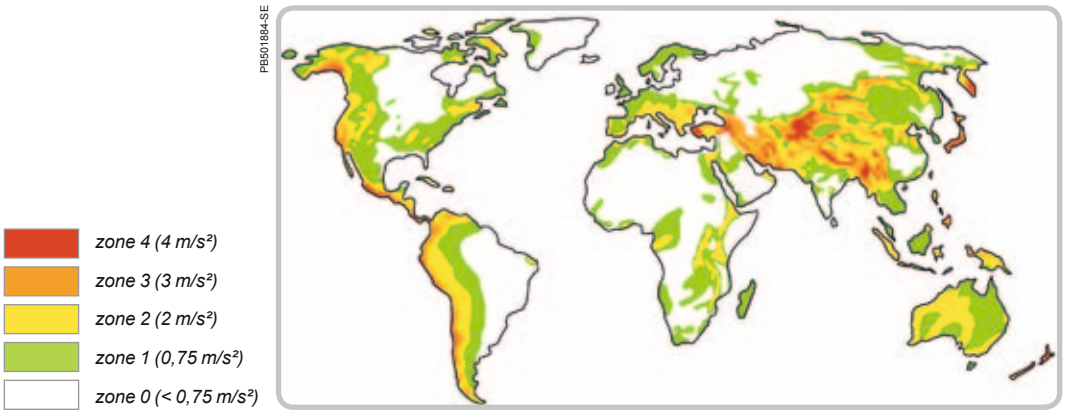
SF S3D

General overview

■ **Introduction**
Schneider Electric's Spacial range offers enclosures (SF cubicles and S3D boxes) certified for installation in seismic risk zones of various intensities. The zones used to classify the enclosures are those defined by the Uniform Building Code (UBC).

■ **UBC zones**
The UBC has defined 6 zones (0, 1, 2A, 2B, 3, 4, 5) according to ground acceleration. The illustration below, taken from IEC 60721-2-6 (Figure 5), uses the zones defined by the UBC, combining, for greater clarity, zones 2A and 2B in zone 2.

PB501884-SE



■ **Certification of Spacial enclosures**
The tests used for certification are those specified by the international standard and adapted for the requirements of nuclear industry. The reference documents are as follows:
□ M12D0168610 (EDF): Earthquake resistance tests specified for the nuclear industry. This document is the update of document CRT 91-C-112-00 produced following the Fukushima accident
□ IEC 60068-3-3 (first edition): international standard.

Certification of Spacial enclosures

■ **Enclosures for weak to medium earthquakes:**
The standard offer of SF cubicles is certified to withstand all seismic risks up to UBC zone 3 for the following applications:
- Control and automation;
- Industrial electronics (19" frame);
- LV power distribution (Spacial SFP).

■ **Enclosures for medium to strong earthquakes:**
The Spacial SF 5G cubicle is certified to withstand any seismic risk up to UBC zone 4 thanks to its reinforced structure, its special panel mounting system and its locking system. It has been tested for the following applications:
□ Control and automation;
□ Industrial electronics (19" frame);
□ LV power distribution (Spacial SFP 5G).

■ **Enclosures for very strong earthquakes:**
The Spacial S3D 6G cubicle is certified to withstand any seismic risk up to UBC zone 4 thanks to its panel thickness, its locking system, its wall mounting brackets and its reinforced chassis mounting. It has been tested for the following application:
□ Control and automation.

Seismic and nuclear enclosures
Introduction

New

SF S3D

Technical information

Definitions

Ground acceleration:
Ground acceleration resulting from a given earthquake.
Note: In practice, ground acceleration can be broken down into horizontal and vertical components.

Floor acceleration:
Acceleration of a particular floor in a building (at the location of an equipment item) resulting from a given earthquake.
Note: In practice, floor acceleration can be broken down into horizontal and vertical components.

Test results

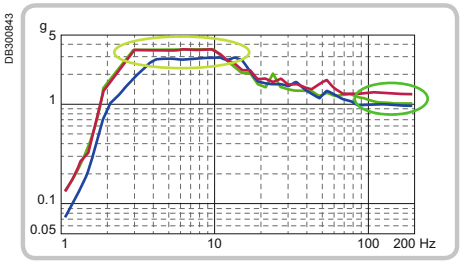
Spacial offer			Earthquake characteristics				Floor acceleration (m/s²) (2)						
Standard	5G (5)	6G (5)	IEC 60068-3-3 (Table 3)				Required response spectra (RRS)					Test response spectra (TRS)	
			Seismic zones	Intensity scales		Ground acceleration a_g	IEC 60068-3-3		EDF				
SF, SF 19", SFP	SF 5G, SFP 5G	S3D 6G	UBC (3)	Richter	MSK (4)	m/s²	Horiz.	Vertic.	Horiz.	Vertic.	Specification	Horiz.	Vertic.
			0	< 5.5	< VIII				N/A				
			1-2			2	6	3				-	-
(6)			3	≥ 5.5 and ≤ 7	VIII to IX	3	9	4.5	6	4.8	*HN 20-E-53*	9	9
			4	> 7	> IX	5	15	7.5	10	8	*CRT 91-C-112-00*	15	12
						(1)	(1)	(1)	20	24	*M12D0168610*	29.6	40

(1) The IEC 60068-3-3, 1991-02 standard has not yet been updated since the events at FUKUSHIMA.
(2) Floor acceleration = a_g x K x D (§8.2.7), where:
K = amplification factor = 3 (Table 4 of IEC 60068-3-3)
D = direction factor = 1 for the horizontal direction, = 0.5 for the vertical direction (Table 5 of IEC 60068-3-3).
(3) Approximate Uniform Building Code values for the zone.
(4) MSK (Medvedev-Sponheuer-Kamik, corresponding to the modified Mercalli intensity scale).
(5) The 5G and 6G designations refer to the amplified maximum acceleration value read respectively on the horizontal RRS of the EDF standard CRT91C11200 and on vertical RRS of the EDF MRI standard for large equipment.
(6) See page 384, tested configurations.

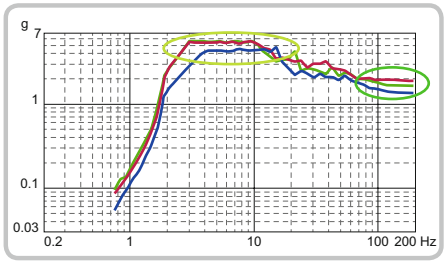
Comment: *g = acceleration due to gravity rounded off to the nearest whole number (1g = 10 m/s²).*

Test Response Spectra (TRS)

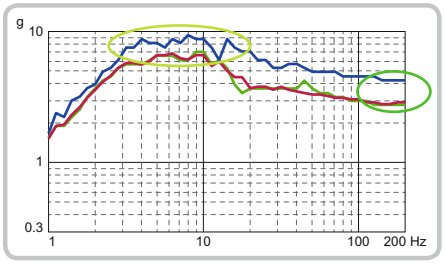
Spectra for SF 3G cubicles



Spectra for SF 5G cubicles



Spectra for S3D 6G boxes



TRSx *TRSy* *TRSz*

x = front-rear horizontal axis
y = left-right horizontal axis
z = vertical axis

Amplified maximum acceleration: acceleration expected at the center of gravity of the equipment

Maximum floor acceleration: unamplified acceleration

Seismic and nuclear enclosures
Introduction

SF

> Spacial SF 5G cubicles (for control and automation) and **Spacial SFP 5G** cubicles (for LV power distribution) have been designed to withstand earthquakes up to UBC zone 4.

PB502602-47



PB502602-70



Reinforced crosspieces
- Two reinforced crosspieces ensure the structure's mechanical strength.

PB502633-32



Panel mounting
- Mounting systems prevent loosening of the screws.

PB502634-17



PB502934-21



Security locking system
- Seismic locking system.
- Special bars and handle to prevent any accidental door opening under severe vibration conditions.

PB502636-40



Reinforced plinths
- New reinforced monobloc plinths.

Seismic and nuclear enclosures
Characteristics

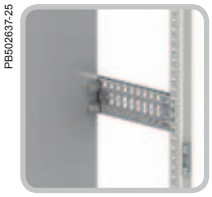
SF

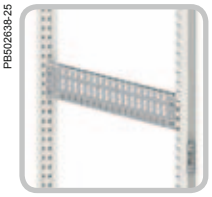
Spacial SF 5G solutions for seismic risks

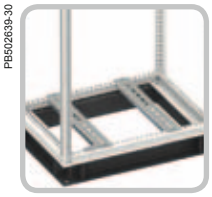


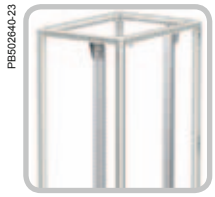
Characteristics	Nominal dimensions (mm)			Load tested (kg)	Plain door enclosure	Side panels	100 mm plinth	Mounting plate*	19" rack*
	Two configurations were tested: ■ Control and automation configuration. 250 kg load uniformly distributed over the plain mounting plate at the rear. ■ Configuration with fixed 19" rack. 250 kg load distributed in accordance with a standard (IEC 60917-2-1).								
	H	W	D		Without rack				
Spacial SF 5G									
A&C configuration	2000	800	600	250	**NSYSF5G20860**	**NSY5G2SP206**	**NSYS5GPC86**	**NSYMP208**	-
19" configuration	2000	600	800	250	**NSYSF5G20680**	**NSY5G2SP208**	**NSYS5GPC86**	-	**NSYRCK42**

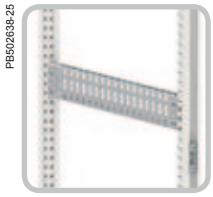
** For plain mounting plate and 19" rack, see information on cubicle reinforcement.*
***NB:** The customer must ensure good cubicle/base connection.*











Characteristics	Spacial SF 5G cubicle reinforcement				
	If the following mounting parts are used in SF 5G cubicles: ■ Plain mounting plates; ■ Fixed 19" rack; then it is mandatory to mount the corresponding reinforcing brackets, universal cross rails and heavy-load cross rails in order to ensure the safety and optimal performance of the cubicle and the equipment it contains.				
	A&C configuration (H 2000 mm x W 800 mm x D 600 mm): Mandatory components for reinforcing Spacial SF 5G cubicles with plain mounting plate			**19" configuration (H 2000 mm x W 600 mm x D 800 mm): Mandatory components for reinforcing Spacial SF 5G cubicles with fixed 19" rack**	
Depth (mm)	**Reinforcing bracket for plain mounting plate**	**Universal cross rails**	**Heavy-load cross rails**	**Reinforcing bracket for fixed 19" rack**	**Universal cross rails**
600	**NSY5GSPK**	**NSYSUCR9060**	**NSYHLCR60**	-	-
800	-	-	-	**NSY5GRCK42**	**NSYSUCR9080**

Seismic and nuclear enclosures
Characteristics

SF

Compliance with local standards

Level and specifications of the standard		
Tested configurations	**Spacial SF 5G**	**Standard Spacial SF (3G)**
A&C configuration	NSYSF5G20860 + NSYS5GPC86 + NSY5G2SP206 + NSYMP208 + NSY5GSPK + NSYSUCR9060 + NSYHLCR60	NSYSF20860 + NSYSPF8100 + NSYSPS6100 + NSY2SP206 + NSYMP208
19" configuration	NSYSF5G20680 + NSYS5GPC86 + NSY5G2SP208 + NSY5GRCK42 + NSYSUCR9080	NSYSF20680 + NSYSPF6100 + NSYSPS8100 + NSY2SP208 + NSYRCK42
Standard		
EDF standard CRT91C11200	Required response spectrum: ■ Horizontal: □ Floor acceleration = 1 g □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: □ Floor acceleration = 0,8 g □ Amplified max. acceleration at center of gravity = 4 g	Required response spectrum: ■ Horizontal: □ Floor acceleration = 0,6 g □ Amplified max. acceleration at center of gravity = 3 g ■ Vertical: □ Floor acceleration = 0,48 g □ Amplified max. acceleration at center of gravity = 2,4 g
AS1170 Australia	All types of soil class / floor zero	Soil type: Ee / Floor zero
EAK 2000 Greece	All types of soil class (delta) Seismic importance factor: γi = 1.3 Ground acceleration factor: α = 0.36 Foundation factor: q = 1 Quality factor = 1.35 Spectral amplification factor: β0 = 2.5	Soil type: D (delta) Seismic importance factor: γi = 0.85 Ground acceleration factor: α = 0.12 Foundation factor: q = 1 Quality factor = 1.35 Spectral amplification factor: β0 = 2.5
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g	Seismic category A 5 % damping Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35	Soil type: S4 5 % damping Ground acceleration factor A = 0.15 Behavior factor = 2 Quality factor z = 1.35
Core GR 63	Zone 4 with a factor of 0.8 for the severity of the vertical component relative to the severity of the horizontal component	5 % damping Zone 3
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4	Site class: Z4 5 % damping Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK (Mercalli) intensity 9, level 2. Nuclear market: MSK (Mercalli) intensity 9, level 0. MSK (Mercalli) intensity 8, level 2.	Standard for the civil market MSK (Mercalli) intensity 9, level 2: enclosure spectrum CRT91C11200
IEEE 693	High level	-

Seismic and nuclear enclosures
Characteristics

SF

Spacial SFP 5G solutions for seismic risks



Characteristics		Nominal dimensions (mm)			Additional load tested (kg)	Plain door	Side panels	100 mm plinth
		Two configurations of the Spacial SFP 5G cubicle were tested. Functional systems were installed on the cubicle and inspected at the end of the test to check that there was no damage. The two test configurations were as follows: ■ 1600 A configuration; ■ 3200 A configuration.						
		H	W	D				
Spacial SFP 5G								
1600 A configuration	Spacial SFP	2000	700	500	350	**NSYSFP5G20750**	**NSY5G2SP205**	**NSYS5GPC75**
	Busbar duct	2000	300	500	350	**NSYSF5G20350**	**NSY5G2SP205**	**NSYS5GPC35**
3200 A configuration	Spacial SFP	2000	700	800	450	**NSYSFP5G20780**	**NSY5G2SP208**	**NSYS5GPC78**
	Busbar duct	2000	300	800	450	**NSYSF5G20380**	**NSY5G2SP208**	**NSYS5GPC38**

NB: - The width (300 mm) of the Spacial SFP 5G cubicle for the busbar duct is not compatible with the Spacial SF 5G cubicle.
- The customer must ensure good cubicle/base connection.

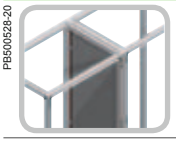
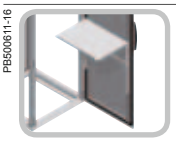
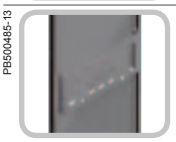
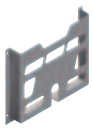
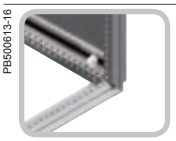
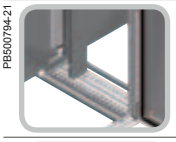
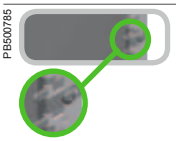
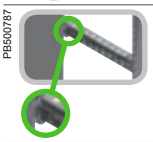
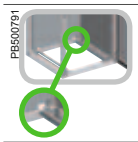
Compliance with local standards

Level and specifications of the standard		
Tested configurations	**Spacial SFP 5G**	**Spacial SFP Standard**
1600 A configuration	2 x NSYSFP5G20750 + NSYS5GPC75 + NSYSF5G20350 + NSYS5GPC35 + NSY5G2SP205 + 2 x NSYSFBK	2 x NSYSFP20750 + NSYSF20350 + NSY2SP205 + 2 x NSYSFBK
3200 A configuration	2 x NSYSFP5G20780 + NSYS5GPC78 + NSYSF5G20380 + NSYS5GPC38 + NSY5G2SP208 +2 x NSYSFBK	2 x NSYSFP20780 + NSYSF20380 + NSY2SP208 +2 x NSYSFBK
Standard		
EDF standard CRT91C11200	Required response spectrum: ■ Horizontal: □ Floor acceleration = 1 g □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: □ Floor acceleration = 0,8 g □ Amplified max. acceleration at center of gravity = 4 g	Required response spectrum: ■ Horizontal: □ Floor acceleration = 0,71g □ Amplified max. acceleration at center of gravity = 3,5 g ■ Vertical: □ Floor acceleration = 0,56 g □ Amplified max. acceleration at center of gravity = 2,8 g
AS1170 Australia	All types of soil class / floor zero	Soil type: Ee / Floor zero
EAK 2000 Greece	All types of soil class (delta) Seismic importance factor: γi = 1.3 Ground acceleration factor: α = 0.36 Foundation factor: q = 1 Quality factor = 1.35 Spectral amplification factor: β0 = 2.5	Soil type: D (delta) Seismic importance factor: γi = 0.85 Ground acceleration factor: α = 0.12 Foundation factor: q = 1 Quality factor = 1.35 Spectral amplification factor: β0 = 2.5
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g	Seismic category A 5 % damping Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35	Soil type: S4 5 % damping Ground acceleration factor A = 0.15 Behavior factor = 2 Quality factor Q = 1.35
Core GR 63	Zone 4 with a factor of 0.8 for the severity of the vertical component relative to the severity of the horizontal component	5 % damping Zone 3
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4	Site class: Z4 5 % damping Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK (Mercalli) intensity 9, level 2. Nuclear market: MSK (Mercalli) intensity 9, level 0. MSK (Mercalli) intensity 8, level 2.	Standard for the civil market MSK (Mercalli) intensity 9, level 2: enclosure spectrum CRT91C11200
IEEE 693	High level	-

Seismic and nuclear enclosures
Accessories

SF

Compatibility of accessories in seismic cubicles

Accessories		Compatibility	Comments	Trade references impacted
PB500528-20 	Partitioning panel	Limited	Not compatible with 19" racks or uprights	**NSYPPS•••**
PB502598-8 	Interior door	Not compatible	-	**NSYID••**
PB500611-16 	Folding mounting shelf	Not compatible with SFP 5G	-	**NSYSDT•**
PB500485-13 	Metal document holder	Not compatible	-	**NSYSDP•M**
PB500464-12 	Plastic document holder	Limited	NSYDPA5, NSYDPA4 and NASYDPA44 are compatible with 500, 600 and 800 mm doors NSYDPA3 is only compatible with 800 mm doors Not compatible with Prisma doors	**NSYDPA••**
PB500613-16 	Door centering gasket	Not compatible with SFP 5G Limited with SF5G	SF 5G not compatible in standard position	**NSYSDRC**
PB500477-6 	Mounting plate	Limited with SF/SFP 5G	Not compatible at the back of the enclosure	**NSYMP•••**
PB500794-21 	Intermediate mounting plate	Not compatible	-	**NSYIMP••**
PB500785 	Intermediate fastening of the mounting plate, at the back of the enclosure	Not compatible	-	**NSYSMPFB**
PB500787 	Intermediate fastening of the mounting plate, in advanced position	Not compatible	-	**NSYSMPFA**
PB500791 	Simple brackets for mounting plate	Not compatible	-	**NSYSMPSB**
PB500800-21 	Side guide rails for mounting plates	Not compatible	-	**NSYSMPE•**

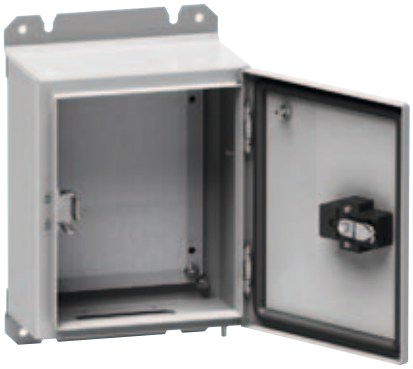
NB: *None of the accessories is certified 5G.*

Seismic and nuclear enclosures
Introduction

New S3D

> Spacial S3D 6G cubicles are designed to withstand earthquakes up to UBC zone 4.

PB502933-56



PB502934-58



PB502761SE-152



Strength
- Panel thickness:
  - Casing + door: 20/10 mm;
  - Entry flange: 15/10 mm.

PB502634-17



PB502934-21



Security locking system
- EDF 1600 security locking system with captive key.

PB502766-51



Reinforced mounting plate
- Mounting plate reinforcement.
- Increased number of attachment points.

PB502761SE-56



Wall mounting
- Reinforced bracket for wall mounting.

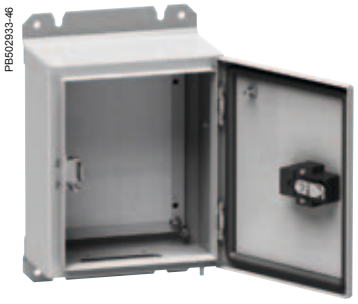
Seismic and nuclear enclosures

Characteristics, accessories

New

S3D

Spacial S3D 6G solutions for seismic risks



Characteristics	Spacial S3D 6G
	Seismic applications up to UBC zone 4.
Material	Steel
Supply	■ Monobloc casing (cross structure) ■ Gutter-shaped front profile ■ Flat back ■ Plain door with EDF 1600 captive key lock ■ < H 600: 1 fastening point ■ ≥ H 600: 3 fastening points with connecting rods ■ 120° door opening ■ Mounting plate galvanized before mounting ■ Entry flange ■ Two wall mounting brackets ■ M6 x 16 earthing screws for equipotential connection between the cubicle door and casing ■ Non-reversible door (for reversibility, please contact us)
Finish	■ Structured finish, epoxy-polyester powder ■ Two coats of paint ■ Paint 87 % decontaminatable by fission products (in accordance with NF T 30-501)
Colour	RAL 7035
Panel thickness	■ Casing & door: 20/10 mm ■ Entry flange: 15/10 mm
Ingress protection rating	IP65
Mechanical protection rating	IK10
Standards	IEC 62208 (enclosure) - 60529 (IP) - 60262 (IK) - 60068
Certifications	6G certification as per CRT 91-C-112-00 (EDF)
Dimensions H x W x D (mm)	**References**
300 x 250 x 150	**NSYS3D6G32515P**
400 x 300 x 200	**NSYS3D6G4320P**
600 x 500 x 250	**NSYS3D6G6525P**
700 x 500 x 250	**NSYS3D6G7525P**
800 x 600 x 300	**NSYS3D6G8630P**
1200 x 800 x 400	**NSYS3D6G12840P**

NB: *The customer must ensure good cubicle/base connection.*







Characteristics	Locks for cubicle		Padlocking lug
	≤ H 600	**> H 600**	
	With captive key.	With captive key.	Securing of cubicle access.
Material	Zamak lock and metal cam	Polyamide handle, metal connecting rods and cam	White galvanized steel
Supply	1- or 3-point lock with 1 lock button and 1 cremone bolt	3-point lock with 1 lock button and 1 cremone bolt	-
References			
-	-	-	**NSYAEDLPADS3DK3**
EDF 900	**NSYAEDLEDF9K31**	**NSYAEDLEDF9K33**	-
EDF 1300	**NSYAEDLEDF13K31**	**NSYAEDLEDF13K33**	-
EDF 1400	**NSYAEDLEDF14K31**	**NSYAEDLEDF14K33**	-
1242E	**NSYAEDL1242K31**	**NSYAEDL1242K33**	-
405E	**NSYAEDL405K31**	**NSYAEDL405K33**	-
455E	**NSYAEDL455K31**	**NSYAEDL455K33**	-

Seismic and nuclear enclosures
Characteristics

New

S3D

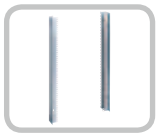
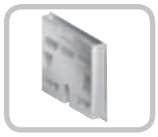
Compliance with local standards

Level and specifications of the standard	
Standard	
EDF standard M12D0168610	"Large equipment" MRI RRS: ■ Horizontal: □ Floor acceleration = 2 g (1.8 g on the TRS) □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: □ Floor acceleration = 2.4 g (2 g on the TRS) □ Amplified max. acceleration at center of gravity = 6 g
AS1170 Australia	All types of soil class / floor zero
EAK 2000 Greece	All types of soil class (delta) Seismic importance factor: γi = 1.3 Ground acceleration factor: α = 0.36 Foundation factor: q = 1 Quality factor = 1.35 Spectral amplification factor: β0 = 2.5
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4 with a factor of 0.8 for the severity of the vertical component relative to the severity of the horizontal component
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK (Mercalli) intensity 9, level 2. Nuclear market: MSK (Mercalli) intensity 9, level 0. MSK (Mercalli) intensity 8, level 2.
IEEE 693	High level

Seismic and nuclear enclosures
Accessories

New S3D

Table of Compatibility of accessories in 6G seismic S3D cubicles

Accessories		Compatibility	Comments	Trade references impacted
PB500333-19 	Door crosspiece	No	Door provided with a wire guide	**NSYTFPCRN•**
PB500329-25 	Canopy	No	Not compatible due to brackets	**NSYTJ•••**
PB500322-11 	19" rack	Limited	Conditions: Drilling by customization department to be provided for	**NSYVDM••••**
PB500328-14 	Interior door	No	-	**NSYPIN••**
PB500223-25 	Door stop	No	-	**NSYAEDRSCST**
ISPA011_010-43 	Door switch	Limited	Conditions: Drilling by customization department to be provided for	**NSYINLCRN**
PB500083-29 	Diagram holder	Yes	-	**NSYDPA••**
PB500338-24 	Lifting rings	Limited	Conditions: Drilling by customization department to be provided for	**NSYAELYTCRG8**

Comment: *None of the accessories is certified 6G.*

Seismic and nuclear enclosures
Introduction

New

> The **Spacial S3D 6G K3** cubicle meets K3 requirements in accordance with RCCE 2012.

PB502761SE-56



PB502767-58



PB502761SE-152



Strength
- Panel thickness:
  - Casing + door: 20/10 mm;
  - Entry flange: 15/10 mm.

PB502773-32



Decontaminatable smooth paint, PID 100 series
- In compliance with CCTR 91.C.031.06 Two coats of paint (minimum thickness: 60 µ).
- Epoxy-polyester powder, PID 100 series.
- PIA-PIC 100 on request.

PB502634-17



PB502763-8



Security locking system
- EDF 1600 security locking system with captive key.

PB502766-41



Reinforced mounting plate
- Mounting plate reinforcement.
- Increased number of attachment points.

PB502770-36



Earth continuity
Earth continuity between the interior and exterior of the cubicle is provided by 2 opposite welded studs (external earth screw principle).

PB502761SE-56

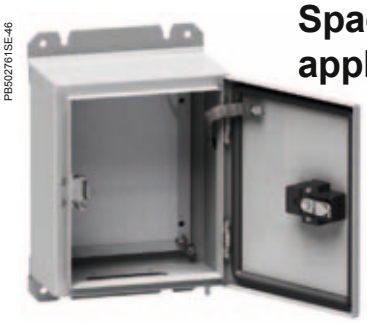


Wall mounting
- Reinforced bracket for wall mounting.

Seismic and nuclear enclosures

Characteristics, accessories

New



Spacial S3D 6G K3 solutions for nuclear applications

Characteristics	Spacial S3D 6G K3
	Seismic application for nuclear power station.
Material	Steel
Supply	■ Monobloc casing (cross structure) ■ Gutter-shaped front profile ■ Flat back ■ Plain door with EDF 1600 captive key lock ■ < 600: 1 fastening point ■ ≥ 600: 3 fastening points ■ 120° door opening ■ Mounting plate galvanized before mounting ■ Entry flange ■ Two wall mounting brackets ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ Earth continuity between the interior and exterior of the cubicle is provided by 2 opposite welded studs (external earth screw principle) ■ Non-reversible door (for reversibility, please contact us)
Finish	■ Epoxy-polyester powder ■ Decontaminatable paint: PID 100 series ■ On request: PIA 100 series and PIC 100 series
Colour	■ RAL 7035 ■ Other shades in PIA-PID 100 series, PIC 100 series. Please contact us
Ingress protection rating	IP65
Mechanical protection rating	IK10
Standards	IEC 62208, IEC 60529, IEC 62262, IEC 60068
Certifications	■ 6G certification ■ Meets K3 requirements in accordance with RCCE 2012 ■ EDF reference documents: □ CCTR paint and FNP file; □ RCC-E: Electrical equipment construction code; □ Packaging technical specification; □ "PMUC" (products and materials used in nuclear generating stations)
Dimensions H x W x D (mm)	**References**
300 x 250 x 150	**NSYS3D32515PK3**
400 x 300 x 200	**NSYS3D4320PK3**
600 x 500 x 250	**NSYS3D6525PK3**
700 x 500 x 250	**NSYS3D7525PK3**
800 x 600 x 300	**NSYS3D8630PK3**
1200 x 800 x 400	**NSYS3D12840PK3**





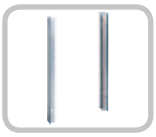
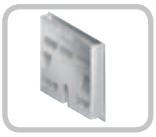


Characteristics	Locks for cubicle		Padlocking lug
	≤ H 600	**> H 600**	
	With captive key.	With captive key.	Securing of cubicle access.
Material	Zamak lock and metal cam	Polyamide handle, metal connecting rods and cam	White galvanized steel
Supply	1- or 3-point lock with 1 lock button and 1 cremone bolt	3-point lock with 1 lock button and 1 cremone bolt	-
References			
-	-	-	**NSYAEDLPADS3DK3**
EDF 900	**NSYAEDLEDF9K31**	**NSYAEDLEDF9K33**	-
EDF 1300	**NSYAEDLEDF13K31**	**NSYAEDLEDF13K33**	-
EDF 1400	**NSYAEDLEDF14K31**	**NSYAEDLEDF14K33**	-
1242E	**NSYAEDL1242K31**	**NSYAEDL1242K33**	-
405E	**NSYAEDL405K31**	**NSYAEDL405K33**	-
455E	**NSYAEDL455K31**	**NSYAEDL455K33**	-

Seismic and nuclear enclosures
Accessories

New

Table of Compatibility of accessories in 6G K3 seismic S3D cubicles

Accessories		Compatibility	Comments	Trade references impacted
PB500333-19 	Door crosspiece	No	Door provided with a wire guide	**NSYTFPCRN•**
PB500329-25 	Canopy	No	Not compatible due to brackets	**NSYTJ•••**
PB500322-11 	19" rack	Limited	Conditions: Drilling by customization department to be provided for	**NSYVDM••••**
PB500328-14 	Interior door	No	-	**NSYPIN••**
PB500223-25 	Door stop	No	-	**NSYAEDRSCST**
ISPA011_010-43 	Door switch	Limited	Conditions: Drilling by customization department to be provided for	**NSYINLCRN**
PB500083-29 	Diagram holder	Yes	-	**NSYDPA••**
PB500338-24 	Lifting rings	Limited	Conditions: Drilling by customization department to be provided for	**NSYAELYTCRG8**

Comment: *None of the accessories is certified 6G K3.*

Seismic and nuclear enclosures
Customization

New

1 > Special dimensions

We meet the K3 requirements as per RCCE 2012 for the special dimensions mentioned below. These dimensions appear in the Reference File.

Height \ Width	250	300	400	500	600	800
1200					200/250/300/400	200/250/300
1000					200/250/300/400	200/250/300/400
800			200/250/300	200/250/300	200/250/400	200/250/300/400
700			200/250/300	200/300	200/250/300/400	
600			200/250/300	200/300	200/250/300/400	
500	150/200	150/200/250	200/250/300	200/250/300		
400	150/200	150/250				
300	200	150/200/250				

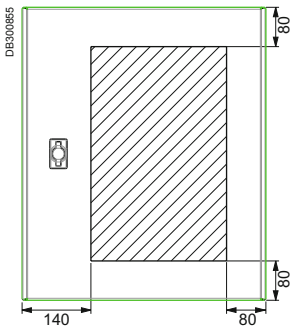
Available depths

2 > Cut-outs

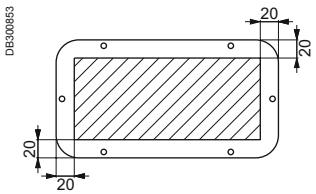
We meet the K3 requirements as per RCCE 2012 for the cut-outs mentioned below. These cut-outs appear in the Reference File.

Customization areas ensuring K3 certification

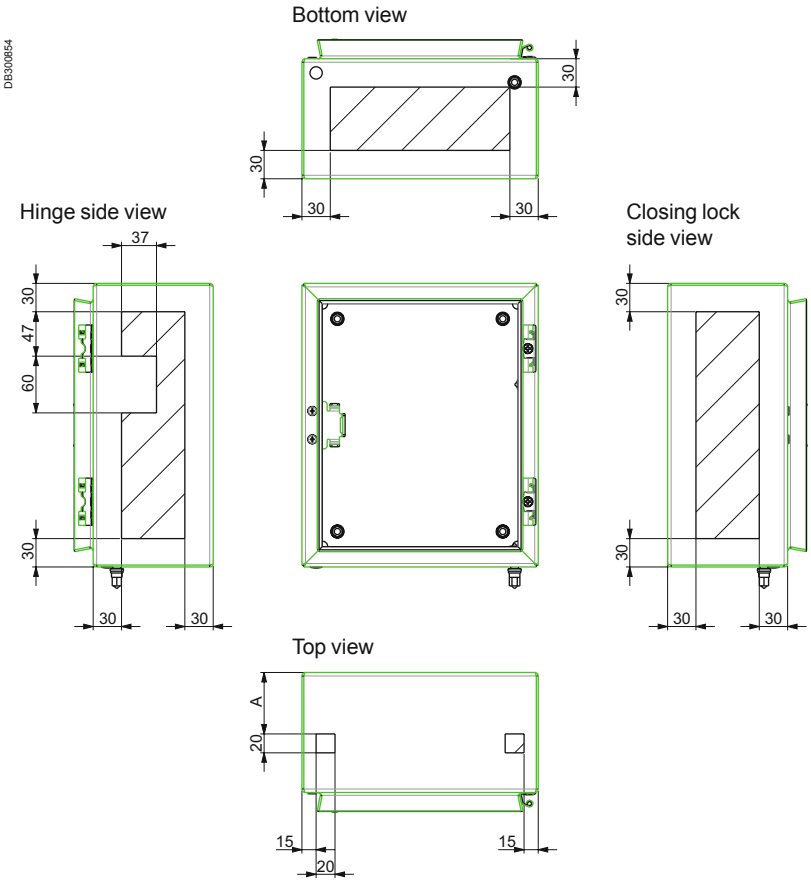
Door



Entry flange



Casing



Depth	A
150	65
200	82
250	98
300	115
400	148

Seismic and nuclear enclosures
Customization

New

3 > Paints

Referencing of the following paints in the FNP (national paint file):

AFNOR / RAL	Colors of PIA-PID 100 series
AFNOR	1550
	1570
	2550
	2570
RAL	1003
	5005
	5024
	7036

AFNOR / RAL	Colors of PIC 100 series
AFNOR	1550
	1570
	2550
	2570
RAL	1003
	5005
	5024
	7036

Others colors available: consult us.

4 > Packaging

We can produce a special corrosion protection packaging (Gardac type).

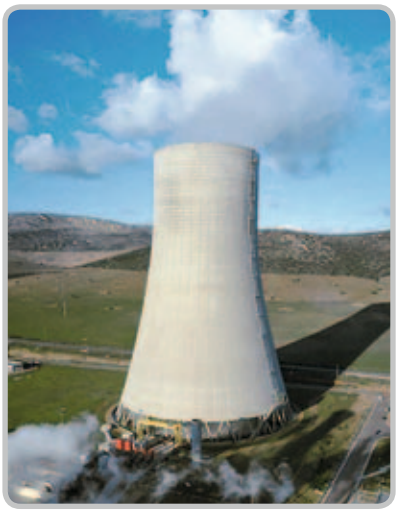
PB502823-50



Seismic and nuclear enclosures

A demanding nuclear market

New



Our range of **Spacial 3D nuclear** cubicles meets the K3 requirements of RCCE 2012. The Schneider Electric cubicle production plant has established processes to ensure K3 certification.

> Establishment of a line architecture adapted to the requirements mentioned in RCCE 2012, implying:
- Hold points;
- Check points;
- Control of "AIP" activities that are important for protection

> Manufacturing completion report with:

- Declaration of conformity.
- Monitoring document.
- Report and test report.

> Establishment of a Particular Quality Assurance Plan (PQAP)

> Reference documents for the nuclear industry: RCC-E, CCTR, FNP, packaging technical specification, "PMUC" (products and materials used in nuclear generating stations), SGAQ-2013-03, Arrêté INB 2012

Seismic and nuclear enclosures
A demanding nuclear market

New

Nuclear safety has 3 objectives

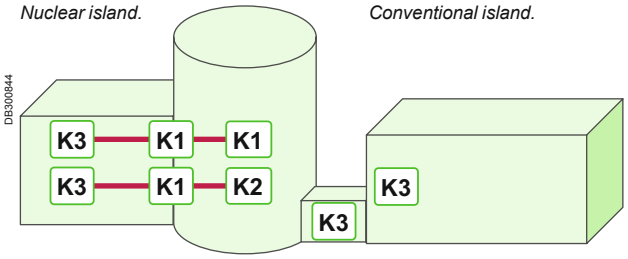
- Control reactivity
- Cool the fuel
- Confine radioactive products

Technical choices and safety rules

The technical choices and safety rules are stipulated by the operator with full responsibility relative to the French nuclear safety authority (ASN) (representing the state) depending on the location in the installation and whether or not they form part of the safety circuits. The products undergo tests to ensure their operation in accidental conditions.



A safety circuit consists of several equipment items. Their certification depends on their location. Equipment interfacing between the core and the other buildings is always K1 (risk of radioactive leakage).



Certifications necessary to work in the nuclear industry

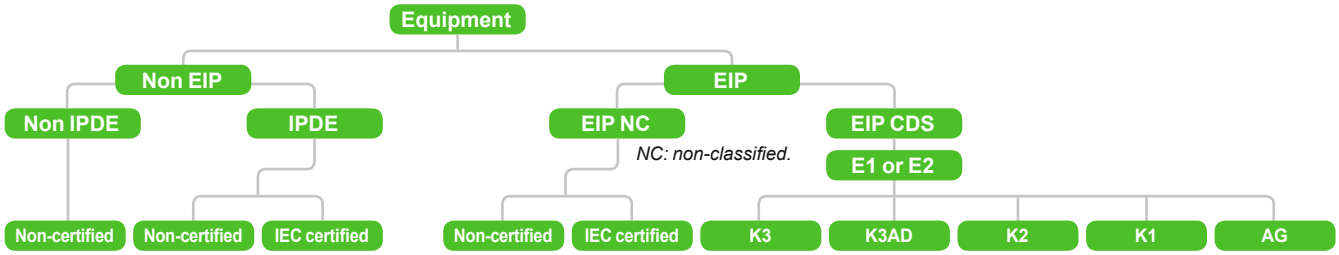
2 certifications are necessary to work in the nuclear industry

1• Product and equipment certifications imply demanding performances validated by technical documents and by tests. In the event of a change in the product, it must be **explained and justified** that the initial certification is maintained.

2• Certifications of industrial organizations and services related to products and equipment.

The products equipping French nuclear facilities in this catalogue comply with the RCC-E 2012 standard.

Terminology of equipment classifications used in nuclear power stations



EIP: Equipment Important for Protection.
IPDE: Important for operating availability.
CDS: safety-classified.
Schneider is concerned only by E1 (elec. classification).

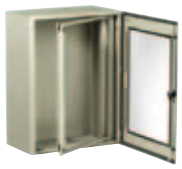
Tests corresponding to specific classifications for EIP equipment

- K3 > ref. tests + functional operating limits + ageing + earthquake
- K3AD > K3 + environmental resistance (irradiation, heat, spraying)
- K2 > K3 + resistance to ageing irradiation (250 Kgy)
- K1 > K2 + resistance to accidental irradiation (600 Kgy) + ADR
- AG > K1 reinforced only for EPR power stations

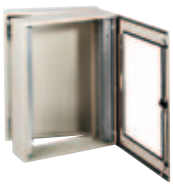
Electronic application
Introduction

> Spacial VDM

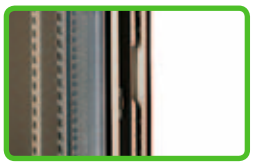
PB500403-29



PB500203-22



PB500203-82



Simplified installation
Pre-installed fixed or swing rack; earth connection placed between the door and the body; the enclosure is ready to use; the cardboard packaging can be reused after cabling.

> Spacial S3D

PB500097-17

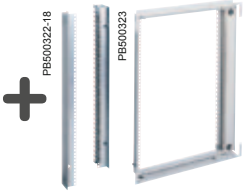


PB500096-18

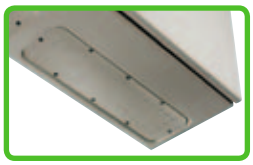


PB500322-18

PB500323



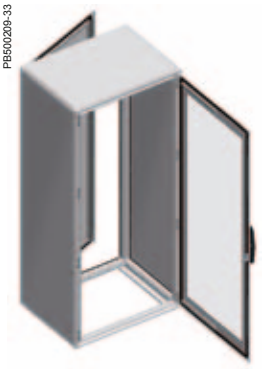
PB500305-32



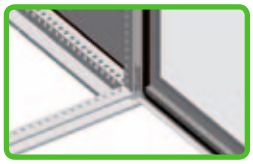
Practical
Cable-gland plates at top and bottom:
- on the rear part (2-body enclosure),
- on the body (1-body enclosure).

> Spacial SF

PB500209-33



PB500209-83



Suitable metal enclosure
Enclosure prepared for the installation of standard 19" racks in professional telecommunication, voice, data and electronic facilities, by means of 19" fixed and swing racks, see page 401.

This range can be configured according to your needs

4 differents services available:

Assemble to order

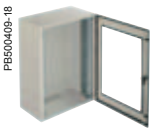
Mounting of standard accessories

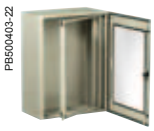
Painting

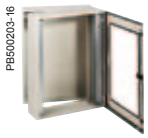
Machining

See page 480 for details or consult our web site www.schneider-electric.com

Electronic application
Characteristics





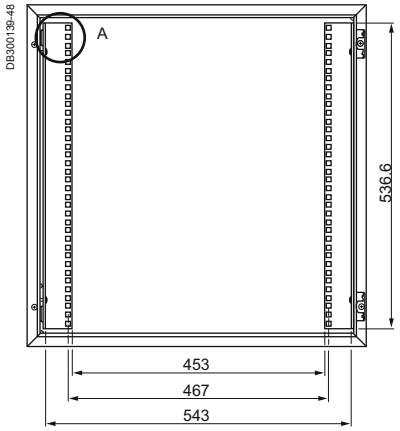


Characteristics				Spacial VDM 19"		
				1-body		2-body
				■ Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped. ■ Perforated rails on the door, with drill holes of Ø 4.2 mm in steps of 25 mm. ■ Transparent door, Securit® glass, easily removable and reversible, with 20-mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges. Three closure points for heights of more than 600 mm. ■ Polyurethane gasket. ■ 6 mm² earth connection placed between the door and the body of the enclosure.		
Material				Steel		
Finish				Structured finish, polyester powder		
Colour				RAL 7035 grey		
Ingress protection rating				IP66		
Mechanical protection rating				IK08		
Maximum load				3 kg per unit		2 kg per unit
Other characteristics				■ Enclosure in 2 pieces: body + door ■ Cable-gland plate at the bottom of the enclosure ■ Fixed rack depth-adjustable in steps of 25 mm using the step slides		**Rear** ■ Depth: 150 mm ■ Internal attachment point for fixing various supports ■ Hinges and locking system with the body ■ Cable-gland plate at the top and bottom **Body** ■ Usable depth of 183 or 283 mm ■ Two 19" uprights made from treated steel, installed 65 mm back from the front panel ■ Intermediate body installed on the rear with 120° hinge
Supply				Wall-mounting enclosure supplied with 3-mm double-bar lock as standard		Wall-mounting enclosure supplied with 3-mm double-bar lock as standard
Height (mm)	**Width (mm)**	**Depth (mm)**	**Number of U**	**Fixed rack**	**Swing rack**	**Fixed rack**
300	600	380	5	-	-	**NSYVD2M5U4**
		400	4	-	**NSYVDM4U4P**	-
		400	5	**NSYVDM5U4F**	-	-
		480	5	-	-	**NSYVD2M5U5**
		500	5	-	-	-
400	600	380	8	-	-	**NSYVD2M8U4**
		400	7	-	**NSYVDM7U4P**	-
		400	8	**NSYVDM8U4F**	-	-
		480	8	-	-	**NSYVD2M8U5**
		500	8	-	-	-
500	600	380	10	-	-	**NSYVD2M10U4**
		400	9	-	**NSYVDM9U4P**	-
		400	10	**NSYVDM10U4F**	-	-
		480	10	-	-	**NSYVD2M10U5**
		500	10	-	-	-
700	600	380	14	-	-	**NSYVD2M14U4**
		400	13	-	**NSYVDM13U4P**	-
		400	14	**NSYVDM14U4F**	-	-
		480	14	-	-	**NSYVD2M14U5**
		500	14	-	-	-
800	600	380	17	-	-	**NSYVD2M17U4**
		400	16	-	**NSYVDM16U4P**	-
		400	17	**NSYVDM17U4F**	-	-
		480	17	-	-	**NSYVD2M17U5**
		500	17	-	-	-

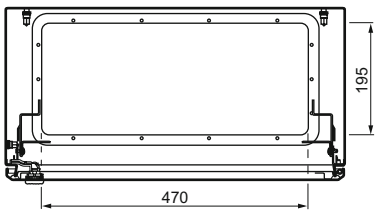
Electronic application
Dimensions

1-body 19" enclosure

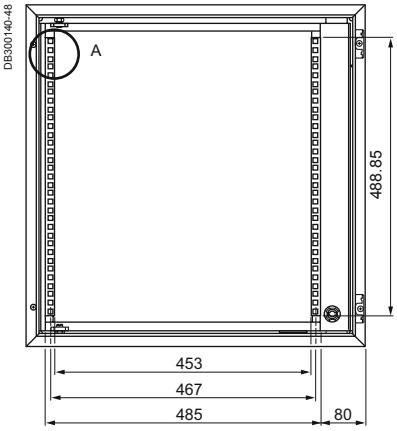
Fixed chassis

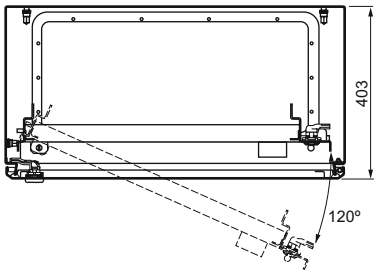


Top view

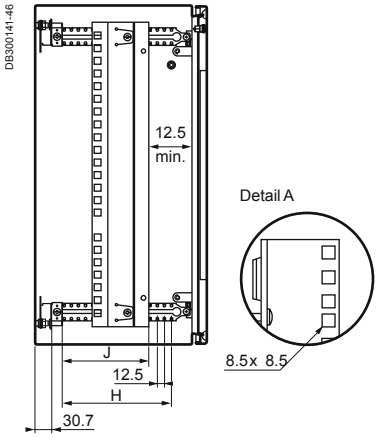


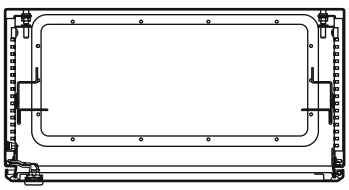
Swing chassis





Fixed chassis mounted on the step slides





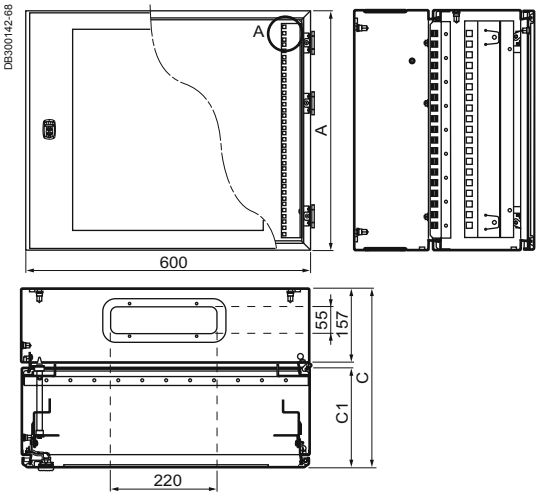
Cable-gland plate 495 x 220 mm.

H (bars) (mm)	J (travel) (mm)
200	100
250	150
300	200
400	300

2-body 19" enclosure

A (mm)	C (mm)	C1 (mm)	References
300	373	183	**NSYVD2M5U4**
400	373	183	**NSYVD2M5U5**
500	373	183	**NSYVD2M8U4**
700	373	183	**NSYVD2M8U5**
800	373	183	**NSYVD2M10U4**
300	473	283	**NSYVD2M10U5**
400	473	283	**NSYVD2M14U4**
500	473	283	**NSYVD2M14U5**
700	473	283	**NSYVD2M17U4**
800	473	283	**NSYVD2M17U5**

Cable-gland plate S3D type dimensions 245 x 80 mm.



Electronic application
Characteristics


PB500097-18


PB500096


PB500322


PB500323

Characteristics	Spacial S3D		
	Empty enclosure	**Fixed rack (1)**	**Swing rack (1)**
	■ Single-piece body (cross-shaped structure). Gutter-shaped front profile with double fold. Flat rear. ■ Cable-gland plate with marking for easy drilling and to guarantee the maximum access surface; delivered with the enclosure. This plate is flush with the body of the enclosure. ■ Glazed door, 4-mm-thick Securit® glass, easily removable and reversible, with 20-mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges (2). Door opening to 180° with optional hinges (page 66).	19" fixed chassis comprising 2 19" uprights with fixing. ■ Thickness: 20/10e mm. ■ Adjustable in depth by fixing on the step slides in accessories.	19" swing chassis opening to 120° with closure by 3 mm double bar insert.
Material	Steel	Galvanized steel	Steel
Finish	Structured finish, epoxy-polyester powder	-	Epoxy-polyester powder
Colour	RAL 7035 grey	-	RAL 7035 grey
Ingress protection rating	■ IP66 for the single-door enclosures ■ IP55 for the double-door enclosures	-	-
Mechanical protection rating	■ IK10 for the plain-door enclosures, according to IEC 62262 ■ IK08 for the glazed-door enclosures	-	
Maximum load	50 kg/m²	3 kg per unit	3 kg per unit
Fixing	Direct wall-mounting (4 Ø 10 holes for the sealing plugs guaranteeing the IP) or with the help of fixing lugs installed from the outside (to be ordered separately, see page 58)	-	-
Other characteristics	■ For heights from 600 mm, three locking points with linkage, with a single control point. Simple reversal of linkage ■ A handle is delivered which provides 2 functions: □ operating key □ tool for loosening the stud protection caps. This handle can be solidly attached to the locking system by means of a captive element ■ Perforated rails on the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm: □ 2 vertical rails from the height of 400 mm □ 2 vertical rails and 2 horizontal rails from the width of 800 mm	-	-
Supply	Wall-mounting enclosure supplied with 3-mm double-bar lock as standard	-	-

Height (mm)	Width (mm)	Depth (mm)	Glazed door	Plain door	Number of U		Number of U	
400	600	200	**NSYS3D4620T**	**NSYS3D4620**	8	**NSYVDM8UF**	7	**NSYVDM7UP**
		250	**NSYS3D4625T**	**NSYS3D4625**	8	**NSYVDM8UF**	7	**NSYVDM7UP**
600	600	200	**NSYS3D6620T**	**NSYS3D6620**	12	**NSYVDM12UF**	11	**NSYVDM11UP**
		250	**NSYS3D6625T**	**NSYS3D6625**	12	**NSYVDM12UF**	11	**NSYVDM11UP**
		300	**NSYS3D6630T**	**NSYS3D6630**	12	**NSYVDM12UF**	11	**NSYVDM11UP**
		400	**NSYS3D6640T**	**NSYS3D6640**	12	**NSYVDM12UF**	11	**NSYVDM11UP**
800	600	200	**NSYS3D8620T**	**NSYS3D8620**	17	**NSYVDM17UF**	16	**NSYVDM16UP**
		250	**NSYS3D8625T**	**NSYS3D8625**	17	**NSYVDM17UF**	16	**NSYVDM16UP**
		300	**NSYS3D8630T**	**NSYS3D8630**	17	**NSYVDM17UF**	16	**NSYVDM16UP**
		400	**NSYS3D8640T**	**NSYS3D8640**	17	**NSYVDM17UF**	16	**NSYVDM16UP**
1000	600	250	**NSYS3D10625T**	**NSYS3D10625**	21	**NSYVDM21UF**	20	**NSYVDM20UP**
		300	**NSYS3D10630T**	**NSYS3D10630**	-	-	-	-
		400	**NSYS3D10640T**	**NSYS3D10640**	21	**NSYVDM21UF**	20	**NSYVDM20UP**
	800	250	**NSYS3D10825T**	**NSYS3D10825**	-	-	20	**NSYVDM20U8P**
		300	**NSYS3D10830T**	**NSYS3D10830**	-	-	20	**NSYVDM20U8P**
		400	**NSYS3D10840T**	**NSYS3D10840**	-	-	20	**NSYVDM20U8P**
1200	800	300	**NSYS3D12830T**	**NSYS3D12830**	-	-	25	**NSYVDM25U8P**
		400	**NSYS3D12840T**	**NSYS3D12840**	-	-	25	**NSYVDM25U8P**

(1) The racks are to be ordered separately.
(2) From the height of 800 mm.

Electronic application
Accessories overview

Composition accessories

Fixing lugs

PB502979-16



Page 58

Post-fixing device

PB500156-41



Page 59

Door accessories

Inserts

PB500306-23



Page 64

Handle with keys

PB500346-13



Page 64

Other locking systems

PB500461-16



Page 65

Hinges

PB500353



Page 66

Cable-entry accessories

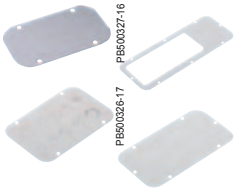
Cable-gland plates for Spacial S3D enclosure

PB500324-14

PB500327-16

PB500325-16

PB500326-17



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ISO cable glands

PB500099-27



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Multiple cable entry

PB500024-33



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Electronic application
Accessories overview

Composition accessories

Plinth-fixing device

PB501637-28



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Canopy

PB500329-35



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Door accessories

Door retainer

PB500223-41



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Door switch

PB501638-28



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Door rails

PB500333-30



Page 283

Earthing systems

PB500407-42



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Mounting accessories

19" fixed and swing racks

PB500323-18

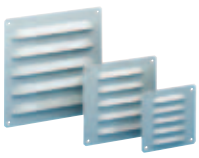


Page 401

Thermal accessories

Ventilation systems

PB500769-36



Page 504

Thermal control

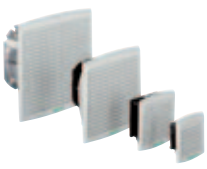
PB501639-20



Page 545

Ventilation systems

PB501021-37



Page 490

Insulated resistance heaters

PB501028-16
PB501027-16
PB501029-12

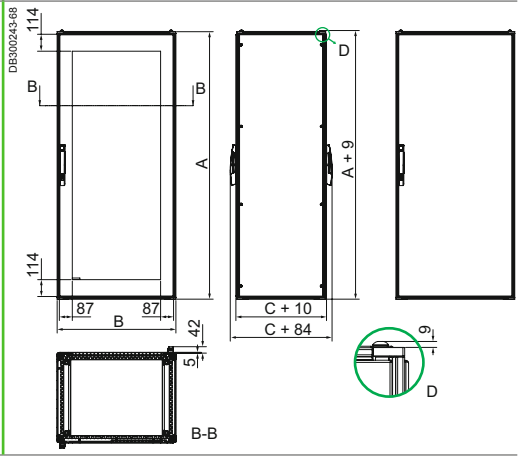


Page 540

Electronic application
Characteristics



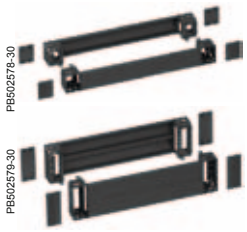
Characteristics			Spacial SF electronic application enclosure
			■ Structure: top and bottom frame and vertical uprights. ■ Transparent front door with Securit® glass. ■ Plain rear door. ■ Standard locking system with handle and 5-mm double-bar insert. ■ Removable roof. ■ External fixing side panels double folded to increase their rigidity with captive fixing screws that reduce installation time. ■ In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks, to be ordered separately.
Material			Sheet steel
Finish			Painted with epoxy-polyester resin
Colour			RAL 7035 grey
Certifications			BV, DNV, UL*, CUL
Height (A)	**Width (B)**	**Depth (C)**	**References**
1200	600	600	**NSYSF12660E**
		800	**NSYSF12680E**
	800	600	**NSYSF12860E**
		800	**NSYSF12880E**
2000	600	600	**NSYSF20660E**
		800	**NSYSF20680E**
	800	600	**NSYSF20860E**
		800	**NSYSF20880E**
		1000	**NSYSF208100E**
2200	600	600	**NSYSF22660E**
		800	**NSYSF22680E**
		1000	**NSYSF226100E**
	800	600	**NSYSF22860E**
		800	**NSYSF22880E**
		1000	**NSYSF228100E**

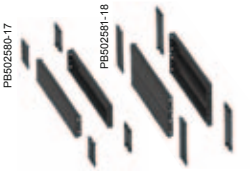


1, 12, 12K

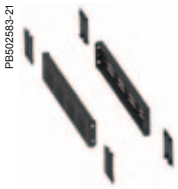
Electronic application
Accessories

Plinth









Characteristics		Front plinth		Plinth side panels		Ventilated front plinth	Ventilated plinth side panels
		The front and rear of the plinth consists of 4 corners with 2 or 4 panels.		They are fixed to the corner of the plinth by 2 fixing screws.		The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.	They are fixed to the corner of the plinth by fixing screws.
Material		Folded sheet steel, corner with a thickness of 25/10e mm		Folded sheet steel		Folded sheet steel, corner with a thickness of 25/10e mm	Folded sheet steel
Finish		Painted with epoxy-polyester resin		Painted with epoxy-polyester resin		Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
Colour		RAL 7022 grey		RAL 7022 grey		RAL 7022 grey	RAL 7022 grey
Ingress protection rating		IP30		IP30		IP20	IP20
Mechanical protection rating		IK10		IK10		IK10	IK10
Supply		■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements		■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements		■ Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements
References							
Width (mm)	**Depth (mm)**	**100 mm**	**200 mm**	**100 mm**	**200 mm**	**100 mm**	**100 mm**
600	600	**NSYSPF6100**	**NSYSPF6200**	**NSYSPS6100**	**NSYSPS6200**	**NSYSPFV6100**	**NSYSPV6100**
	800			**NSYSPS8100**	**NSYSPS8200**		**NSYSPV8100**
	1000			**NSYSPS10100**	**NSYSPF10200**	-	-
800	600	**NSYSPF8100**	**NSYSPF8200**	**NSYSPS6100**	**NSYSPS6200**	**NSYSPFV8100**	**NSYSPV6100**
	800			**NSYSPS8100**	**NSYSPS8200**		**NSYSPV8100**
	1000			**NSYSPS10100**	**NSYSPF10200**	-	-

Electronic application
Accessories

Door



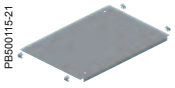


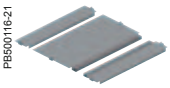


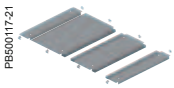
Characteristics		Ventilated door for 19" racks		Transparent door for off-centre racks
		■ Door designed to achieve natural ventilation of the enclosure. ■ Installation on enclosures with a width of 800 mm, equipped with centred fixed or swing racks. Opening of 120°. ■ Standard locking system with handle and 5-mm double-bar insert.		■ Transparent door for installation in enclosures with off-centre 19" racks. ■ Shows only the devices mounted on the 19" rack. ■ Opening of 120°. ■ Lock with handle and 5-mm double-bar insert, four locking points. □ 2 points, heights of 1200 and 1400 mm. □ 4 points, heights of 1600 to 2200 mm. ■ Door stop profile. ■ Opening to the right or left. ■ Width of the glass 485 mm, off-centre by 77 mm.
Material		Steel		Steel and Securit® glass
Finish		Painted with epoxy-polyester resin		Painted with epoxy-polyester resin
Colour		RAL 7035 grey		RAL 7035 grey
Supply		1 ventilated door for racks		1 off-centre transparent door
Height (mm)	**Width (mm)**	**Single ventilated door**	**Double ventilated door**	
1200	600	**NSYPCVD126**	**NSYPCV2D126**	-
	800	**NSYPCVD128**	**NSYPCV2D128**	**NSYED128T**
1400	800	**NSYPCVD148**	**NSYPCV2D148**	**NSYED148T**
1600	800	**NSYPCVD168**	**NSYPCV2D168**	**NSYED168T**
1800	800	**NSYPCVD188**	**NSYPCV2D188**	**NSYED188T**
2000	600	**NSYPCVD206**	**NSYPCV2D206**	-
	800	**NSYPCVD208**	**NSYPCV2D208**	**NSYED208T**
2200	600	**NSYPCVD226**	**NSYPCV2D226**	-
	800	**NSYPCVD228**	**NSYPCV2D228**	**NSYED228T**

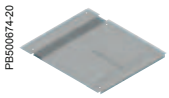
Electronic application
Accessories

Cable-gland plates









Characteristics		Plain	With 1 entry	With 2 entries	Ventilated
		Maximum compact water/ dustproof design.	Facilitates the entry of cables thanks to a longitudinal opening.	Cable entry for very deep enclosures (600 and 800 mm). Two longitudinal openings allowing a large number of cables through.	Plates for cable entry from the bottom of the enclosure. Each plate has a hole with an 8-mm diameter, covered with a plug, for cases in which earthing needs to be performed by an earthing cable or braid (elements not supplied).
Material		Galvanised steel			Galvanised steel
Thickness		15/10e mm			15/10e mm
Fixing		-			Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip
Supply		Plain plate and fixing elements	Plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements	1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements	1 ventilated plate with one entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements
Width (B)	**Depth (C)**	**References**			
600	600	**NSYEC66**	**NSYEC661**	**NSYEC662**	**NSYECV661**
	800	**NSYEC68**	**NSYEC681**	**NSYEC682**	**NSYECV681**
	1000	**NSYEC610**	**NSYEC6101**	**NSYEC6102**	**NSYECV6101**
800	600	**NSYEC86**	**NSYEC861**	**NSYEC862**	**NSYECV861**
	800	**NSYEC88**	**NSYEC881**	**NSYEC882**	**NSYECV881**
	1000	**NSYEC810**	**NSYEC8101**	**NSYEC8102**	**NSYECV8101**

Top and bottom cable-gland plate supports

PB500675-23



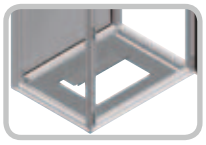
Enclosure width 600 mm.

PB500676-29



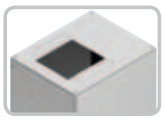
Enclosure width 800 mm.

PB500677-40



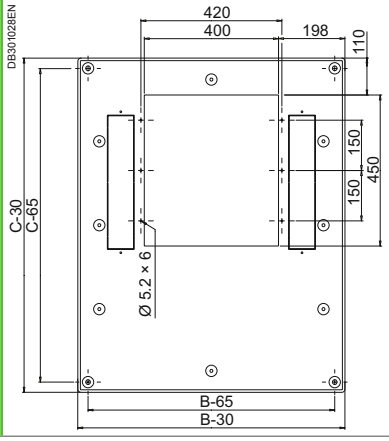
PB503340-28

PB503341-20



Characteristics		Cable-gland support for Actassi plates	Roof for Actassi plates
		Support for cable entry from the bottom of the enclosure. Allows the installation of Actassi cable-gland accessories.	Roof prepared for installing Actassi roof accessories. Suitable for enclosures with widths of 600 and 800 mm.
Material		Galvanised steel	Steel
Finish		-	Painted with epoxy-polyester resin
Colour		-	RAL 7035 grey
Thickness		15/10e mm	-
Fixing		Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip. The Actassi plates are fixed by C-shaped clips to the enclosures with a width of 600 mm, and by screws directly to the support in the enclosures with a width of 800 mm.	-
Supply		■ Enclosure width 600 mm: two plates and fixing elements ■ Enclosure width 800 mm: one support and fixing elements	1 roof with central cut-out and side pre-cuts (width 800 mm)
Width (B) (mm)	**Depth (C) (mm)**	**References**	
-	-	-	-
600	600	**NSYCECS66**	-
	800	**NSYCECS68**	-
	1000	**NSYCECS610**	-
800	600	**NSYCECS86**	**NSYSRSYS86**
	800	**NSYCECS88**	**NSYSRSYS88**
	1000	**NSYCECS810**	**NSYSRSYS810**

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Electronic application
Accessories

Top and bottom cable-gland plate solutions

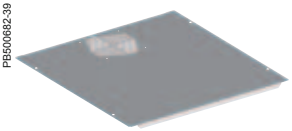
PB500680-38



PB500681-38

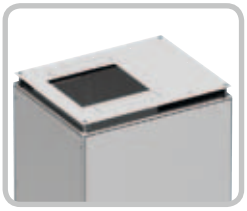


PB500682-39



	Plain top roof for Actassi plate	Top roof for Actassi plate with brush gasket	Cut-out top roof for Actassi plate
	Removable plate made from folded sheet steel. Option of installing roof elevators for aeration, ref. **NSYEX206**, and cable glands.	Removable folded sheet-steel plate, equipped with a gasket with cable-gland brush. Optional installation of roof elevators for aeration, ref. **NSYEX206**, and cable-gland plates.	Removable plate made from folded sheet steel. Optional installation of roof elevators for aeration, ref. **NSYEX206**, cable-gland plates and fans.
	Steel	Steel	Steel
	Painted with epoxy-polyester resin	Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
	-	-	-
	-	-	-
	1 plain top roof plate and fixing elements	1 top roof plate with brush gasket and fixing elements	1 cut-out top roof plate and fixing elements
	NSYTSPC450	**NSYTSP450**	**NSYTSPV450**
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

PB503344-32



Roof plate elevators for aeration

PB500683-33



- Columns with a height of 20 mm.
- **Fixing:** between the roofplate and the roof.
- **Supply:** 100 units. Reference by unit.

Order by multiples of 100 (100, 200, 300…).

Reference
NSYEX206

Top and bottom cable-gland plate solutions

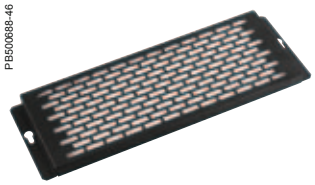






Characteristics	Actassi plain cable-gland plate	Actassi cable-gland plate with brush	Actassi self-ventilated cable-gland plate
Material	Galvanised steel	Galvanised steel	Galvanised steel
Fixing	■ Fixing on the outside of the roof ■ Can be combined with other types of cable-gland plates	■ Fixing on the outside of the roof ■ Can be combined with other types of cable-gland plates	■ Fixing on the outside of the roof ■ Can be combined with other types of cable-gland plates
Supply	1 plain cable-gland plate and fixing elements	1 cable-gland plate with brush and fixing elements	1 self-ventilated cable-gland plate and fixing elements
References			
	NSYEC440	**NSYECP440**	**NSYECAV440**



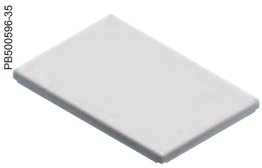




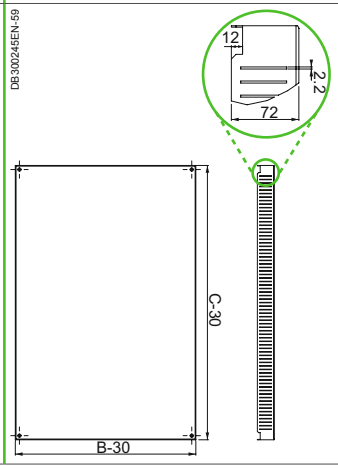
Characteristics	Actassi ventilation plate with cut-outs and with or without fans, 120 mm		Actassi cable-gland filter	Spare Actassi cable-gland filter
Fixing	■ Fixing on the outside of the roof ■ Can be combined with other types of cable-gland plates		To be mounted on the cable-gland plate with or without fan or on the selfventilated cable-gland plate.	-
Other characteristics	Sound level: 34 dB (A)		-	-
Supply	■ 1 cable-gland plate with or without fans, 2-m power cord (version with fans) and fixing elements ■ Supplied with 2 or 3 fans, each of which has an output capacity of 170 m³/h, 220 V-50/60 Hz, installed and wired to a terminal strip. A 2-m power cord is supplied connected		1 mounting support, colour RAL 9011, and filter	5 units
References	**Description**	**References**	**References**	
	No fans, 3 positions	**NSYECVT3440**	**NSYFECVT440**	**NSYCEFILS**
	With 3 fans	**NSYECVT3V440**		
	No fans, 2 positions	**NSYECVT2440**		
	With 2 fans	**NSYECVT2V440**		

Electronic application
Accessories

Top and bottom cable-gland plate solutions



Characteristics		Ventilated roof
		Roof for providing natural ventilation for the enclosure, with IP30 protection. Height: an extra 63 mm in relation to the structure.
Material		Steel
Finish		Painted with epoxy-polyester resin
Colour		RAL 7035 grey
Supply		1 ventilated roof and fixing elements
Width (B) (mm)	**Depth (C) (mm)**	**References**
600	600	**NSYSVR606**
	800	**NSYSVR608**
800	600	**NSYSVR806**
	800	**NSYSVR808**



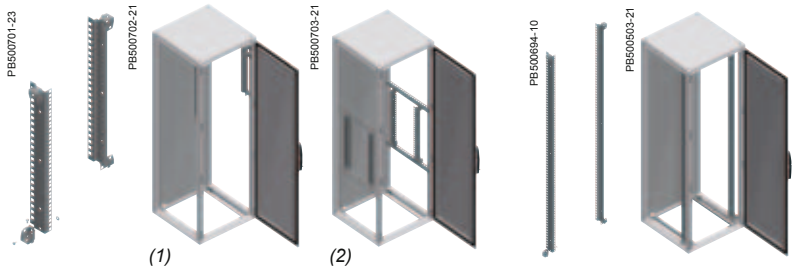
Examples of possible combinations

Cable-gland plates for the roof

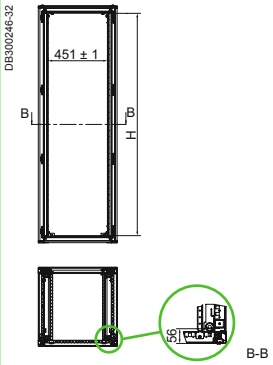
Spacial SF dimensions		Combination 1	Combination 2
Width (mm)	**Depth (mm)**		
600/800	600	PB500690-30 	PB500690-30 
	800		
	1000		

Electronic application
Accessories

Mounting accessories

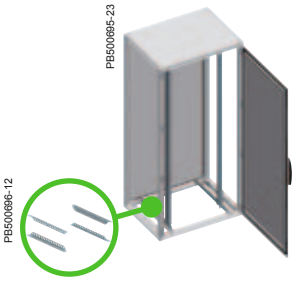


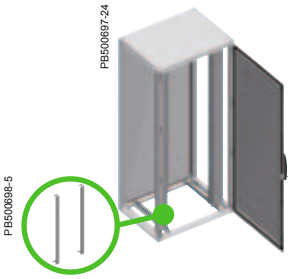
Characteristics		Partial 19" fixed rack		19" fixed rack	
		Rack designed for coupling in enclosures with a width of 600 mm. Adjustable depth with a pitch of 25 mm.		Rack designed for installation in enclosures with a width of 600 mm. Adjustable depth with a pitch of 25 mm. ■ **Spacial SF:** direct fixing on the structure of the enclosures: □ for installation on enclosures with a width of 800 mm, use the 19" fixed-rack support brackets, □ to reinforce the rigidity of the uprights in enclosures with a width of 800 mm, it is advisable to use the central fixing kit, for enclosure heights above 1800 mm, ref. **NSYRCK19KIT**. ■ **Spacial SM:** fixing on the top/bottom adjustment rails.	
Material		Zinc-coated steel		Zinc-coated steel	
Finish		-		-	
Colour		-		-	
Installation		Installation options: ■ **Spacial SF:** □ Installation at the top front of the enclosure, no cross rails needed (1) □ Depth adjustment of the cross rails: two cross rails need to be installed, see page 230 □ For installation at any other height, four depth cross rails are required (2) ■ **Spacial SM:** □ At the top of the enclosure (1): install two depth cross rails, see cross rails on page 230 □ At another height (2): install four cross rails for depthwise installation □ Depthwise installation of the cross rails. Installation of the vertical adaptation profile and the 40-mm universal cross rail (1 row) in vertical position, in the position closest to the back		-	
Maximum load		2 kg/U		400 kg	
Supply		2 uprights and fixing elements		2 uprights and fixing elements	
Height (H) (mm)	**Depth (mm)**	**No. of units**	**References**	**No. of units**	**References**
200	-	4	**NSYRCKP4**	-	-
400	-	8	**NSYRCKP8**	-	-
600	-	12	**NSYRCKP12**	-	-
800	-	17	**NSYRCKP17**	-	-
1000	-	21	**NSYRCKP21**	-	-
1200	-	26	**NSYRCKP26**	24	**NSYRCK24**
1400	-	-	-	29	**NSYRCK29**
1600	-	-	-	33	**NSYRCK33**
1800	-	-	-	38	**NSYRCK38**
2000	-	-	-	42	**NSYRCK42**
2200	-	-	-	47	**NSYRCK47**
-	600	-	-	-	-
-	800	-	-	-	-
-	1000	-	-	-	-



Electronic application
Accessories

Mounting accessories

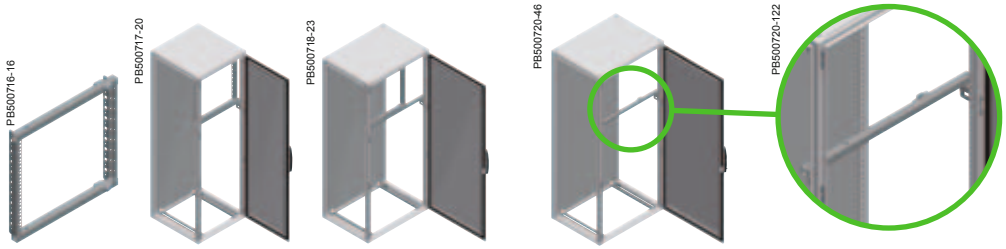




	Support brackets for 19" fixed rack with a width of 800 mm	Side plates of the centred fixed rack for a width of 800 mm
	Support brackets for coupling the fixed rack to enclosures with a width of more than 600 mm. They allow the depth of the fixed rack to be adjusted with a pitch of 25 mm.	Side plates for coupling to the fixed rack in enclosures with a width of 800 mm. Direct installation on the rack by screws.
	Zinc-coated steel	Steel
	-	Painted with epoxy-polyester resin
	-	RAL 7035 grey
	-	-
	400 kg	-
	4 support brackets and fixing elements	2 side plates and fixing elements
	References	**References**
	-	-
	-	-
	-	-
	-	-
	-	-
	-	**NSYRC12**
	-	**NSYRC14**
	-	**NSYRC16**
	-	**NSYRC18**
	-	**NSYRC20**
	-	**NSYRC22**
	NSYRCKS6	-
	NSYRCKS8	-
	NSYRCKS10	-

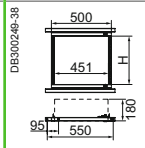
Electronic application
Accessories

Mounting accessories

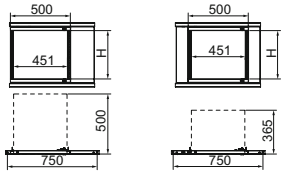


Characteristics	Partial 19" swing rack for 600 and 800 mm enclosures	Partial 19" swing rack support for 600 and 800 mm enclosures
	Rack for coupling to enclosures with widths of 600 and 800 mm. In enclosures with a width of 800 mm, the rack can be installed centred or offcentre. Maximum opening: 120°. Reversible opening direction: left/right. Locking system, top and bottom, with 5 mm double-bar key. The 6 and 9 units racks only with bottom lock. Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm. ■ **Spacial SF:** fixing to the highest position of the enclosure by means of supports for partial 19" swing rack. ■ **Spacial SM:** fixing to the highest position of the enclosure by means of supports for partial 19" swing rack and vertical adaptation profiles.	Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm. Height or depth adjustment, with a pitch of 25 mm, by two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. **NSYMBR19**. ■ **Spacial SF:** direct fixing to the structure. ■ **Spacial SM:** fixing to the enclosure by means of the vertical adaptation profile, see page 234.
Material	Zinc-coated steel	Zinc-coated steel
Installation	■ For height or depth adjustment, with a pitch of 25 mm, it is necessary to use two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. **NSYMBR19**; and for moving depthwise and up or down, four cross rails are required. See universal cross rails, page 230 ■ **Spacial SM:** to install the depthwise cross rails, the vertical adaptation profile and two 40 mm universal cross rails (1 row) are required, installed vertically in the back of the enclosure	Installation of the rack in centred or off-centre position, for enclosures with a width of 800 mm
Maximum load	2 kg/U	-
Supply	1 partial 19" swing rack	2 supports and fixing elements

Dimensions	No. of units (H)	References	References
Height (mm)			
355	6	**NSYRSWP6**	**-**
468	9	**NSYRSWP9**	**-**
601	12	**NSYRSWP12**	**-**
735	15	**NSYRSWP15**	**-**
868	18	**NSYRSWP18**	**-**
1002*	21	**NSYRSWP21**	**-**
1400	-	-	-
1600	-	-	-
1800	-	-	-
2000	-	-	-
2200	-	-	-
Width (mm)			
600	-	-	**NSYRSWSP6**
800	-	-	**NSYRSWSP8**



Partial 19" swing rack for enclosures with a width of 600 mm.



Partial 19" swing rack, off-centre and centred, for enclosures with a width of 800 mm.

19" multiple bracket



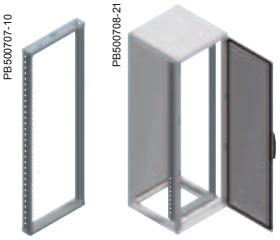
■ Bracket for fixing 65 mm universal cross rails (2 rows), depthwise, to position the partial 19" swing rack in any direction, up and down and/or depthwise.
■ **Material:** zinc-coated steel.
■ **Supply:** 4 brackets and fixing elements.

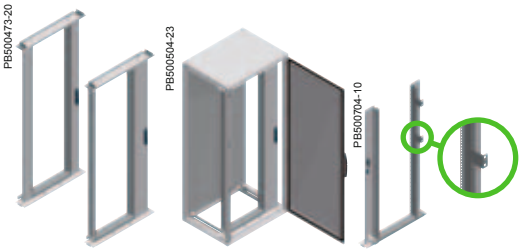
Reference
NSYMBR19

** Optional installation in enclosures with height of 1200 mm.*

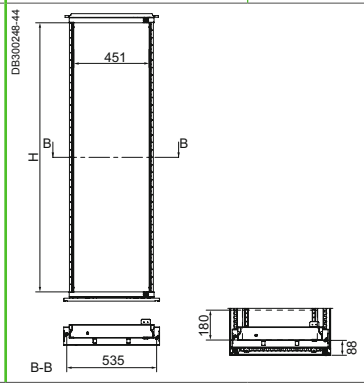
Electronic application
Accessories

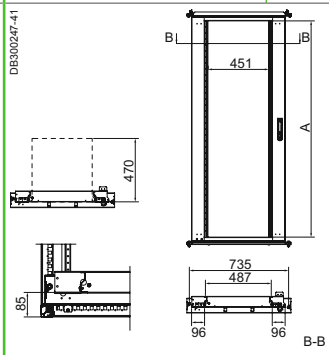
Mounting accessories





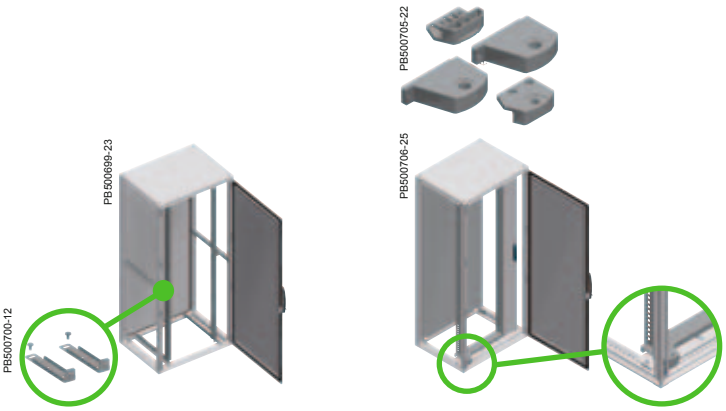
	19" swing rack for 600 mm enclosures		19" swing racks for 800 mm enclosures		
	To be coupled to enclosures with widths of 600 mm. Can be moved depthwise with a pitch of 25 mm. Maximum opening: 120°. Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm. Reversible opening direction: left/right. Locking system, top and bottom, with 5-mm double-bar key. ■ Fixing to the enclosure structure: □ **Spacial SF:** fixing to the entire height of the enclosure structure. □ **Spacial SM:** fixing to the enclosure on top/bottom adjustment rails (order rails separately).		Racks prepared for direct coupling to enclosures with a width of 800 mm. Can be moved depthwise with a pitch of 25 mm. Maximum opening: 120° (possibility of opening to 180° using 180° hinges). Reversible opening direction: left/right. Handle opening system with ball lock. ■ Maximum equipment installation depth: □ Off-centre 19" swing rack: - 120° = 470 mm. - 180° = 425 mm. □ Centred 19" swing rack: - 120° = 390 mm. - 180° = 345 mm. ■ Components: □ Zinc-coated steel central structure. □ Side plate made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.		
	Zinc-coated steel		-		
	Installation options: ■ **Spacial SF - SM:** option for installing 2 racks in enclosures with widths of 1200 and 1600 mm, using two 90-mm universal cross rails in the depthwise direction see page 230) ■ **Spacial SF - SM:** multiple installation options in enclosures with a width of more than 600 mm (800, 1000, 1200 and 1600 mm), using universal cross rails see page 230)		■ **Spacial SF:** multiple installation options in enclosures with a width of more than 800 mm (1000, 1200 or 1600 mm), by using universal, see page 230 ■ **Spacial SM:** option for installing the racks in enclosures with a width of 1600 mm by using universal, see page 230		
	1.5 kg/U		3 kg/U		
	1 19" swing rack with no panels		■ Off-centre 19" swing rack: hinged rack, 800-mm swing rack supports, side lid with ball-lock handle and fixing elements ■ Centred 19" swing rack: swing rack, 800-mm swing rack supports, side plates with ball-lock handle and fixing elements		
	No. of units	**References**	**No. of units**	**Off-centre 19" hinged rack**	**Centred 19" hinged rack**
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	27	**NSYRSW627**	27	**NSYRSW27**	**NSYRSWC27**
	31	**NSYRSW631**	31	**NSYRSW31**	**NSYRSWC31**
	36	**NSYRSW636**	36	**NSYRSW36**	**NSYRSWC36**
	40	**NSYRSW640**	40	**NSYRSW40**	**NSYRSWC40**
	45	**NSYRSW645**	45	**NSYRSW45**	**NSYRSWC45**
	-	-	-	-	-
	-	-	-	-	-





Electronic application
Accessories

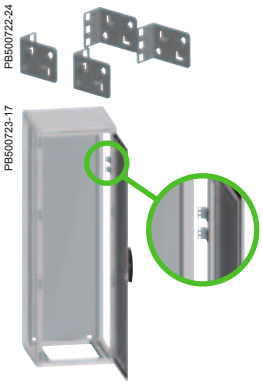
Mounting accessories

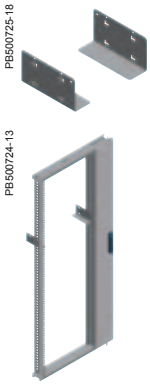


Characteristics	Central fixing kit	180° hinge
	To reinforce the rigidity of the 19" fixed racks in enclosures with a width of 800 mm. Fixing to the enclosure by cross rails or light cross rails installed depthwise. See page 232.	Hinge for installation on centred and off-centre 19" swing racks. Allows the swing rack to be opened to 180°. Fixing by M8 screws directly to the swing rack. Maximum equipment installation depth: □ off-centre 19" swing rack: 425 mm, □ centred 19" swing rack: 345 mm.
Material	Zinc-coated steel	Zamak 5
Thickness	-	-
Maximum load	-	-
Supply	2 supports and fixing elements	2 hinges and fixing elements
References		
	NSYRCK19KIT	**NSYRSWH180**

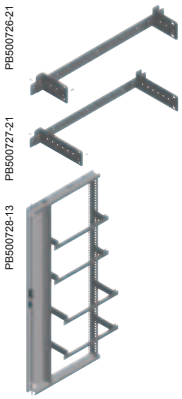
Electronic application
Accessories

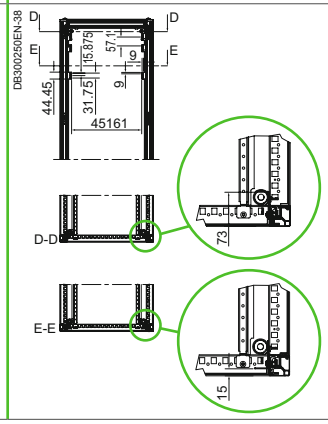
Mounting accessories





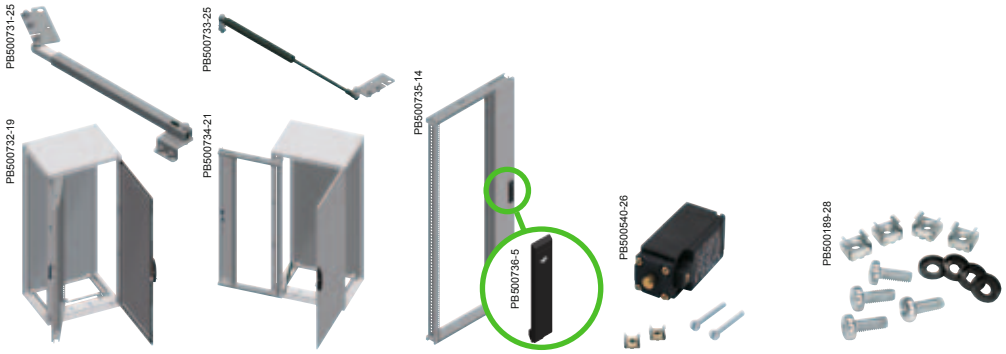




	1 U / 3 U support	19" rack rail	Fixing of cable ducts on 19" racks	Rear cable-guide support	
	Support prepared for installing equipment 1 U or 3 U high. Designed with quick locking for easy installation. ■ **Spacial SF:** direct fixing to the structure. ■ **Spacial SM:** fixing to the enclosure by means of the vertical adapter section, see page 234.	Rails for installation on fixed or swing racks. Direct fixing on the structure of the enclosure, by quick locking.	Allows vertical fixing of cable ducts for cable guide. Service depth: 150 mm. Fixed by quick locking to the 19" rack profile.	Supports used for installation on the rear of the swing racks. Suitable for fixing cable-guide accessories. Allow vertical fixing of cable ducts: Adjustable depth with a pitch of 44.45 mm.	
	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	
	-	12/10e mm	-	-	
	-	15 kg	-	-	
	4 1 U/3 U supports (2 units right and 2 units left) and fixing elements	2 rails and fixing elements	3 units and fixing elements	2 cable-guide supports, crossbar and fixing elements	
				Service depth (mm)	**References**
	NSYRC1U	**NSYGB140**	**NSYRCDFIX**	150	**NSYRCSUP15**
				250	**NSYRCSUP25**
					

Electronic application
Accessories

Swing rack accessories



Characteristics	120° mechanical retainer	180° pneumatic retainer	Flat escutcheon for swing 19" rack	Switch for swing 19" rack	Fixing elements for 19"	
	Retainer for installation on the swing racks. Maximum opening: 120°.	Retainer for installation on the swing racks installed with 180° hinges, in enclosures with a depth of 600, 800 or 1000 mm. Maximum opening: 180°.	Flat escutcheon with 5-mm double-bar insert lock, for installation on swing 19" racks.	Switch for direct fixing on the bottom or top support of the swing rack. M20 connection. Open + closed contact, 10 A/500 V.	Elements required for fixing switchgear on 19" racks, made up of: ■ Screws. ■ Washers. ■ Nuts.	
Fixing	Direct fixing to the rack support and the 19" rack	**Spacial SF:** fixing to the base of the structure and to the rack. **Spacial SM:** direct fixing to the rack support and to the 19" rack.	-	-	-	
Supply	1 mechanical door stop and fixing elements	1 pneumatic door stop and fixing elements	1 flat escutcheon, 5-mm double-bar insert and fixing elements	1 19" rack switch and fixing elements	50 units of each. Reference by unit. Order by multiples of 50 (50, 100, 150…)	
References					**Thread type**	**References**
	NSYRCDR12	**NSYRCDR18**	**NSYRCLOCK**	**NSYRCINT**	M5	**NSYGFR95M55**
					M6	**NSYGFR95M65**

Electromagnetic protected steel enclosures
Introduction

General
The increasing presence of electromagnetic interference in industrial environments, together with the use of equipment susceptible to such interference requires the use of suitably protected enclosures.
In order to suppress electromagnetic interference, S3HF enclosures, due to the type of sheet metal and special gaskets used, fulfil two functions:
- Provision of adequate screening, with the effectiveness of a Faraday cage.
- Ability to provide effective protection of sensitive equipment by using galvanised sheet metal chassis, and by following recommended installation procedures.

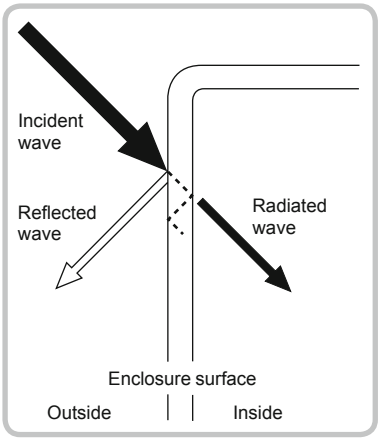
Electromagnetic interference
Electromagnetic disruptions comprises an electrical field E generated by a differing potentials, and a magnetic field M, caused by current circulation, which combine to form electromagnetic field.
The electromagnetic interference or "noise" is a disruptive electrical signal which affects the useful signal and it likely to cause a malfunction.
Interference can be carried through the conductors or emitted through the environment.

Main sources of electrical interference and equipment sensitive to it
- Programmable controllers.
- Electronic circuits or boards.
- Regulators.
- Input signal cables (detectors, sensors, measurement probes).
- Analogue signal cables.

Main sources of electrical interference

Material	Frequency range
Motors	10 kHz… 100 MHz
Transformers/rectifiers	10 kHz… 100 MHz
Inductive load switching	50 kHz… 10 MHz
Spot welders	10 kHz… 50 MHz
Fluorescent lamps	100 kHz… 3 MHz
Relays, contactors	10 kHz… 200 MHz
Switching power sources	10 kHz… 30 MHz
Computers (internal clock)	50 kHz… 200 MHz
Variable speed drives	10 kHz… 100 MHz
Induction furnaces	0… 10 kHz
Power cables, etc.	0… 10 kHz

DB300006



Attenuation level of EMC fields
The waves of electrical or magnetic fields are reflected when they meet the sheet metal of the enclosure.
The effective rate of the screening or dampening "a" of the incident wave is measured in decibels (dB) using the following formulae:

$$a = 20 \log \frac{E_0}{E_1} \text{ (dB) for electrical fields,}$$

$$a = 20 \log \frac{H_0}{H_1} \text{ (dB) for magnetic fields,}$$

- E_0 and E_1 are the current values of the electrical field, before entering and after entering the enclosure respectively.
- H_0 and H_1 are the magnetic field values.

Electromagnetic protected steel enclosures
Introduction

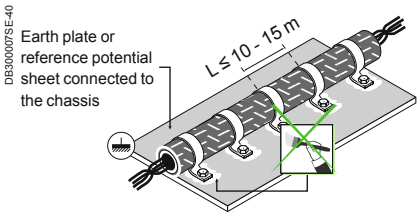
Installation
According to the type of interference generated by the devices:
- Low frequencies, "conducted interference" (up to 30 MHz),
- High frequencies, "radiated interference" (higher than 1 MHz),

the rules to be taken into account relate to the choice of components that provide the most economical solution to complete the installation.

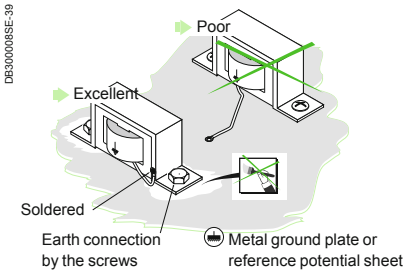
Low-frequency interference
- Importance of the protection systems:
  - filters, overvoltage suppressor, isolating transformer for the power supply,
  - cable length.

High-frequency interference
- Importance of the installation method:
  - earth connections, cable length and section,
  - cable selection and rules, cable runs, connections,
  - enclosures and installation.

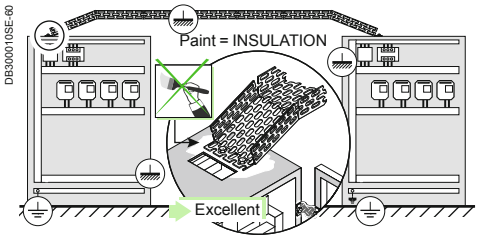
Specifics



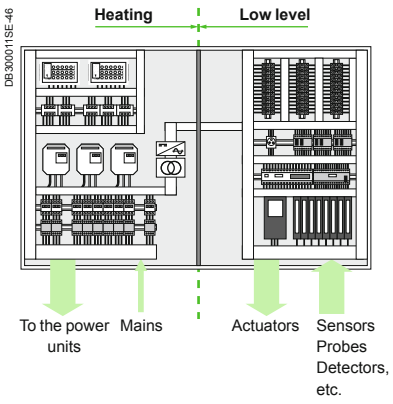
Screen connections
It is recommended to earth screens at both ends. In addition, it is advisable to increase the number of intermediate earth connections.
If the screen is only earthed at one end, there can be a considerable difference in potential between the two ends. In addition, this screen will be ineffective against external high-frequency interference.



Transformers
The transformer chassis must be mounted, metal to metal, on the reference potential plate, that is, on a plain chassis supporting the equipment.



Cable runs
The metal ducts and conduits, when correctly connected, provide an extremely effective second screen for the cables.
Cable ends must be screwed to the metal enclosures in order to provide an effective connection.



Enclosures
The interfering and sensitive components, cables etc. should be installed in separate enclosures or located at some distance from each other.

Note: *For further information, consult your local sales office or our educational leaflet entitled "Electromagnetic compatibility".*

Electromagnetic protected steel enclosures
Introduction

PB500205-46



EMC box, IP55.

Spacial S3HF wall-mounting enclosure IP55 IK10

From H 400 x W 300 x D 200 to H 1200 x W 800 x D 300 mm

■ Metal monobloc enclosures constructed from special ALU-ZINC 150 sheet. Body constructed from single folded and welded sheet.
■ The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
■ Textured epoxy polyester external paint finish, colour grey RAL 7035.
■ Integral, galvanised, sheet steel, plain chassis (reference potential plate). The low resistivity of this plate facilitates earth continuity. Special body/door gasket (IP + EMC) providing both environment protection and continuity between the door and body of the enclosure. Body completely sealed, without any cable entries or apertures. Integral earth braid between enclosure body and door, ensuring good earthing and, in consequence, good electromagnetic compatibility. Metal closing points with earth continuity, thus improving overall screening.

PB501683-46



EMC enclosure, IP55.

Spacial SMHF floor-standing enclosure IP55 IK10

From H 1800 x W 600 x D 600 to H 2000 x W 800 x D 600 mm

■ Metal monobloc enclosure constructed from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
■ Exterior painted with an epoxy polyester external powder paint finish, colour grey RAL 7035.
■ Integral galvanised sheet steel plain chassis (sheet potential reference). The earth continuity is much easier thanks to its weak resistance.
■ Special body-door seal (IP + EMC), providing not only water tightness, but also electrical continuity between the door and the body, necessary for those assemblies. Cable gland plate with special built-in seal (IP + EMC).

PB501682-46



EMC floor-standing enclosure, IP55.

Spacial SFHF suitable enclosure IP55 IK10

From H 1800 x W 600 x D 600 to H 2200 x W 800 x D 800 mm

■ Metal, extendable enclosure constructed thanks to a closed triangular profile, door and panel from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
■ Exterior painted with an epoxy polyester external powder paint finish, colour grey RAL 7035.
■ Integral galvanised sheet steel plain chassis (sheet potential reference). The earth continuity is much easier thanks to its weak resistance.
■ Special body/door gasket (IP + EMC) providing both environmental protection and electrical continuity between the door and body of the enclosure.
■ Integral earth braid between enclosure body and door, ensuring good earthing and, in consequence, good electromagnetic compatibility.
■ The suite joining set is also available for the EMC enclosures, IP55.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

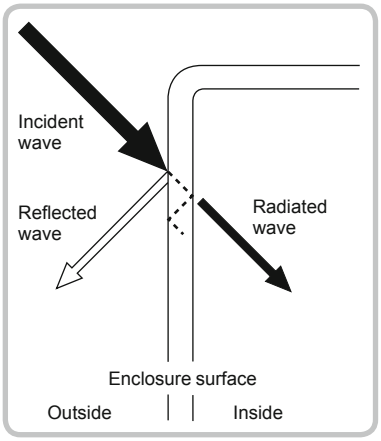
Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

Electromagnetic protected steel enclosures
Introduction

DB300006

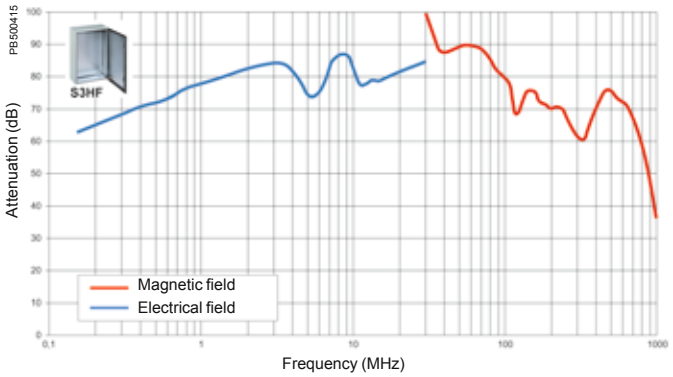


The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.

The next illustrations indicates the attenuation (dB) curves related to the frequency (MHz).

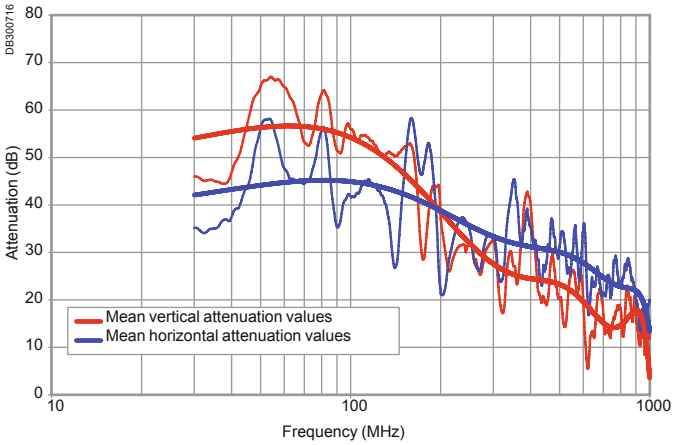
Attenuation of the Spacial S3HF enclosure

General information on Electromagnetic Compatibility, see pages 420 and 421.



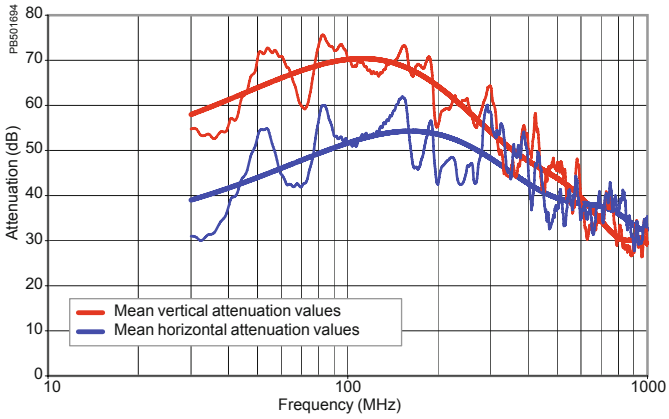
Floor-standing compact enclosure

The enclosure is tested with earth braids mounted on all claddings (test performed following IEC 61587-3).



Floor-standing suitable enclosure

Enclosure is tested with its sides panels and earth braids mounted on all claddings (Test performed following IEC 61587-3).



Electromagnetic protected steel enclosures
Characteristics



Characteristics	Spacial S3HF
	Single-piece metal enclosures made from special sheets of ALUZINC 150. The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves. ■ **Body** □ single-piece body, folded and welded, □ entirely sealed body with no cable entry and no opening. ■ **Equipped with four shouldered backstuds allowing direct fixing of the mounting plate** □ built-in plain mounting plate made from galvanised sheet steel (potential reference sheet), □ its low resistivity promotes earth continuity, □ direct fixing or using wall-fixing lugs, ref. **NSYPFCR** (to be ordered separately). ■ **Door** □ the special body-door gasket (IP + EMC) provides, in addition to water and dust tightness, electric continuity between the door and the body of the enclosure, □ the metal lock with earth continuity helps improve the general shielding, □ an earthing braid added to the enclosure between the body and the door guarantees a good earth connection and, consequently, good electromagnetic compatibility, □ 3 mm double-bar lock as standard delivery (if a 405 key is needed it is possible to mount ref. **NSYCLL405CRN**). ■ Enclosure delivered with solid mounting plate. Other sizes: consult us.
Finish	Painted on the outside with epoxy-polyester resin
Colour	RAL 7035 grey
Ingress protection rating	IP55
Mechanical protection rating	IK10
Certifications	-
Fixing	Fixing lugs, ref. **NSYPFCR** to be ordered separately (1 set of 4 lugs)

Height (mm)	Width (mm)	Depth (mm)	Fig.	Weight (kg)	References
400	300	200	1	7.5	**NSYS3HF4320P**
	600	200	1	13.0	**NSYS3HF4620P**
500	400	200	2	11.5	**NSYS3HF5420P**
600	400	200	2	13.0	**NSYS3HF6420P**
	600	250	2	20.5	**NSYS3HF6625P**
700	500	250	2	19.0	**NSYS3HF7525P**
800	600	300	2	32.8	**NSYS3HF8630P**
1000	800	300	2	53.2	**NSYS3HF10830P**
1200	800	300	2	59.0	**NSYS3HF12830P**
1800	600	600	-	-	-
	800	400	-	-	-
		600	-	-	-
2000	600	400	-	-	-
		600	-	-	-
		800	-	-	-
		1000	-	-	-
	800	400	-	-	-
		600	-	-	-
		800	-	-	-
		1000	-	-	-
2200	600	600	-	-	-
	800	600	-	-	-
		800	-	-	-

Electromagnetic protected steel enclosures
Characteristics

PB501683-34



PB501685-28



	Spacial SMHF	Spacial SFHF	
	■ **Body** □ body made from Aluzinc steel painted on the outside only. ■ **Door** □ front plain door (with reinforcement frame) made from Aluzinc steel, □ special gasket (IP + EMC) between body and door. ■ 1 plain door with door-reinforcement frame. ■ Left or right opening to 120°. ■ Standard handle with 5-mm double bar. ■ 1 part cable-gland plate with special gasket (IP + EMC).	■ **Structure** □ galvanised-steel structure, □ top and bottom frame, vertical upright. ■ **Claddings** □ enclosure with screwed panels (on side and rear) and front plain door (with reinforcement frame) made from Aluzinc steel, □ side panels have to be ordered separately, □ special gasket (IP + EMC) between body, door and panels. ■ 1 single plain door with door-reinforcement frame (double door on request, please consult us). ■ Left or right opening to 120°. ■ Delivered with standard locking system handle and 5-mm double-bar insert. ■ 1 rear panel screwed from the outside. ■ 1 removable roof. ■ 1 part cable-gland plate with special gasket (IP + EMC).	
	Painted on the outside with epoxy-polyester resin (inside not painted)	Painted on the outside with epoxy-polyester resin (inside not painted)	
	RAL 7035 grey	RAL 7035 grey	
	IP55	IP55	
	IK10	IK10	
	RoHS compliant	RoHS compliant	
	-	-	
	References	**Enclosure references**	**Side panel references**
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	NSYSMHF18660P	**NSYSFHF18660**	**NSY2SPHF186**
	-	**NSYSFHF18840**	**NSY2SPHF184**
	NSYSMHF18860P	**NSYSFHF18860**	**NSY2SPHF186**
	-	**NSYSFHF20640**	**NSY2SPHF204**
	-	**NSYSFHF20660**	**NSY2SPHF206**
	-	**NSYSFHF20680**	**NSY2SPHF208**
	-	**NSYSFHF206100**	**NSY2SPHF2010**
	NSYSMHF20840P	**NSYSFHF20840**	**NSY2SPHF204**
	NSYSMHF20860P	**NSYSFHF20860**	**NSY2SPHF206**
	-	**NSYSFHF20880**	**NSY2SPHF208**
	-	**NSYSFHF208100**	**NSY2SPHF2010**
	-	**NSYSFHF22660**	**NSY2SPHF226**
	-	**NSYSFHF22860**	**NSY2SPHF226**
	-	**NSYSFHF22880**	**NSY2SPHF228**

Electromagnetic protected steel enclosures

Dimensions

Spacial S3HF

A: Height.
B: Width.
C: Depth.

Fig. 1

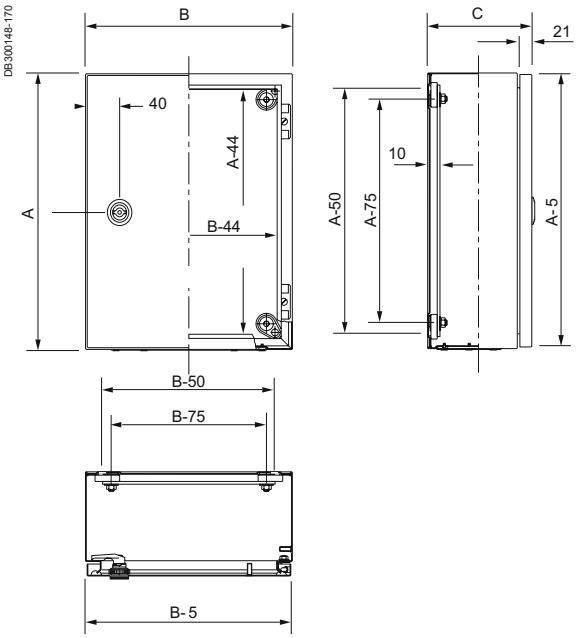
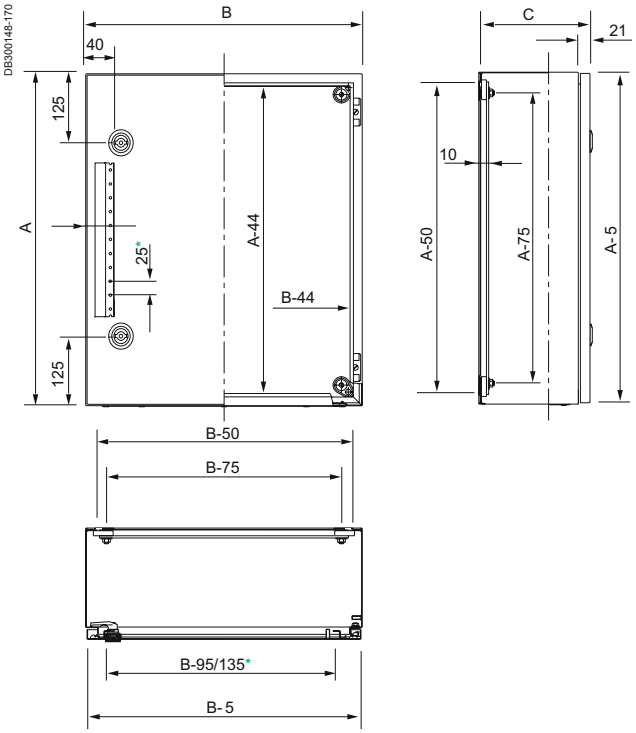


Fig. 2

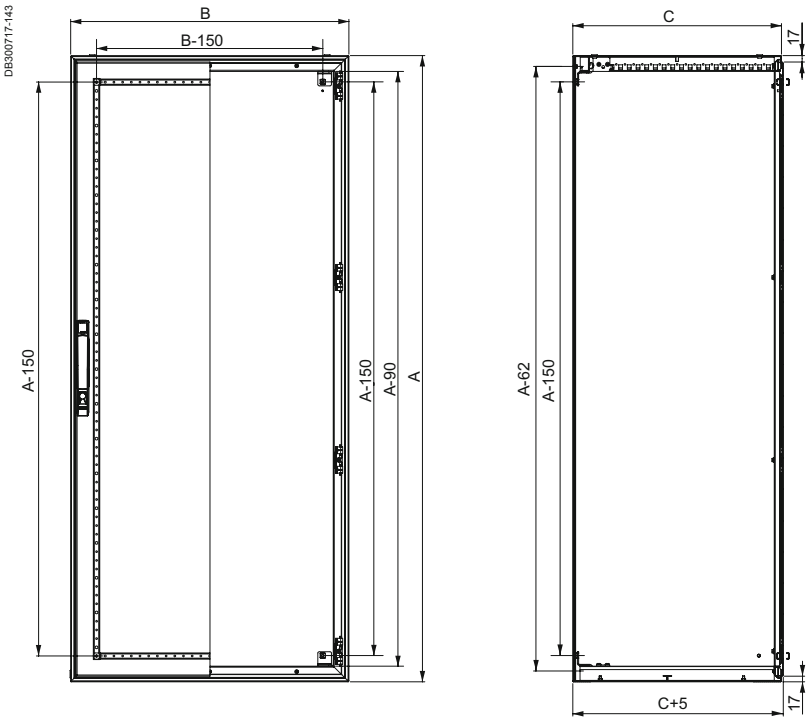


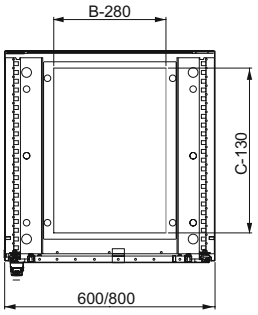
** Model 1200 x 800.*

Electromagnetic protected steel enclosures
Dimensions

Spacial SMHF

A: Height.
B: Width.
C: Depth.



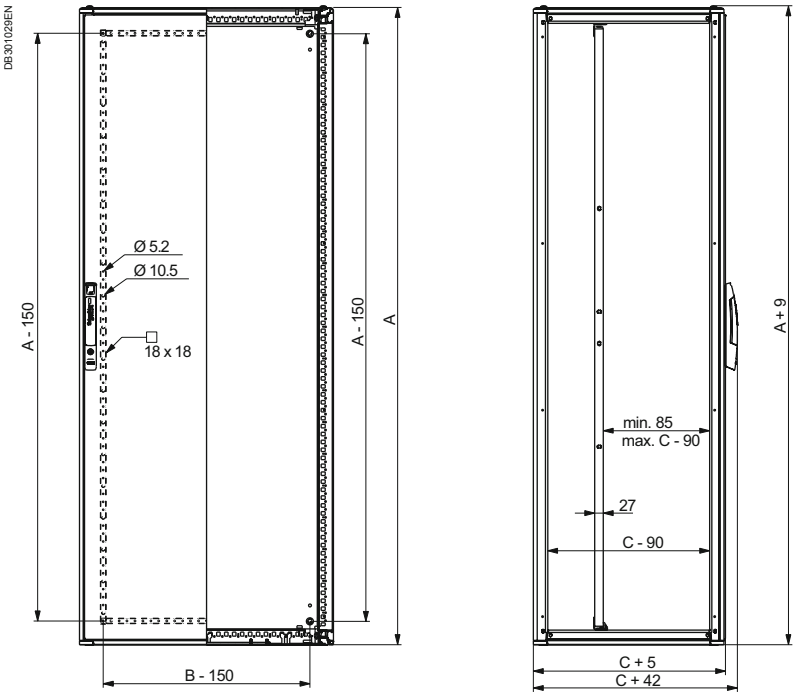


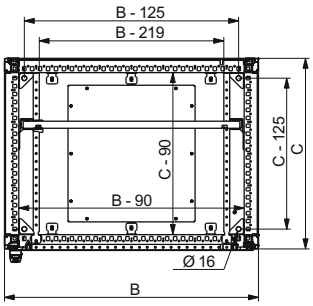
Electromagnetic protected steel enclosures

Dimensions

Spacial SFHF

A: Height.
B: Width.
C: Depth.





Electromagnetic protected steel enclosures
Accessories



All mounting accessories are compatible with the SF and SM standard range.

- Mounting plate (see page 218).
- Rails (see page 228).
- 19" frame (fixed and swinging) (see page 412).

PB500084-43

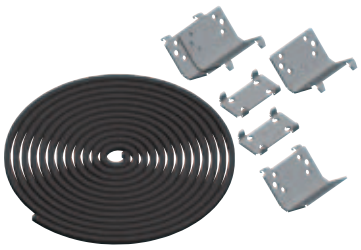


Earth braids

- They guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- **Material:** tinned copper.
- **Supply:** 10 earth braids (nuts and washers not included).

Length (mm)	Width (mm)	Section (mm^2)	Terminal Ø (mm)	References
150	12	6	6.5	**NSYEB156D6**
	17	10	6.5	**NSYEB1510D6**
155	17	16	6.5	**NSYEB1516D8**
200	27	25	6.5	**NSYEB2025D8**
	33	50	6.5	**NSYEB2050D8**

PB500513-49



EMC coupling kit

- Used to join enclosures side-by-side or depthwise.

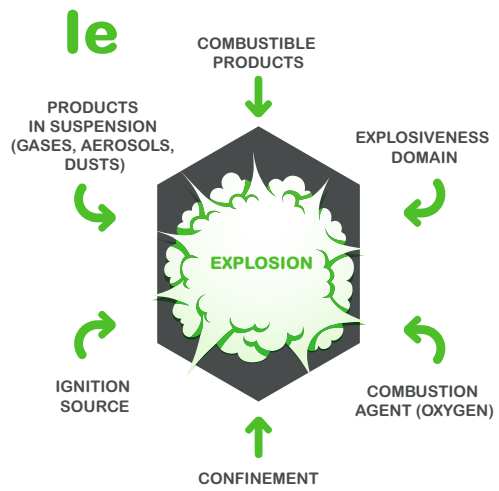
Special gasket for EMC solution.
Attenuation level is decreased by 5 db when enclosures are joined (please consult us).

- **Ingress protection rating:** IP55.

Height (mm)	Depth (mm)	Ref. SM EMC
1800	400	**NSYSFHFBK184**
	600	**NSYSFHFBK186**
2000	400	**NSYSFHFBK204**
	600	**NSYSFHFBK206**
	800	**NSYSFHFBK208**
	1000	**NSYSFHFBK2010**
2200	600	**NSYSFHFBK226**
	800	**NSYSFHFBK228**

Enclosures for explosive atmospheres
Introduction

DB301035EN



Explosion hexagon

Potentially explosive atmospheres (or ATEX)

> Process leading to an explosion in an explosive atmosphere

■ For an explosion to occur, six conditions must be met simultaneously (see explosion hexagon opposite). The process is as follows:
□ mix combustible substances (gases, dusts) with air whose oxygen acts as combustion agent;
□ dose combustible products and combustion agents in precise proportions; you thus obtain a potentially explosive atmosphere;
□ confine the explosive atmosphere thus obtained in a place conducive to explosion;
□ place it in contact with an ignition source having sufficient energy to cause an explosion.

> ATEX regulations

Two EU directives and an international standard regulate potentially explosive atmospheres :
■ The objective of the two EU directives (the so-called ATEX directives) is to enhance protection from explosions by making various technical and organizational measures compulsory:
□ the 2014/34/EU directive (a revision of the 94/9/EC directive) came into application on 20 April 2016. It describes the requirements that must be met by protection devices and systems, and the conformity assessment procedures;
□ the 99/92/EC directive, a labour relations supplement to the preceding one, presents the minimum requirements to be met to improve the protection of workers liable to be exposed to ATEX-related risks.

■ An IEC international standard harmonized with the European standard EN:
□ IEC 60079: electrical equipment for potentially explosive gaseous atmospheres.

> Classification

Locations liable to be in the presence of an explosive atmosphere have been classified according to 2 criteria:
□ the probability assessed on a scale comprising 3 levels;
□ the nature of the combustible product.
The following 6 ATEX zones are obtained:

Probability of an explosive atmosphere	Gas / Vapour or mist	Dust
Place in which an explosive atmosphere is present constantly, or for long periods or frequently	**Zone 0**	**Zone 20**
Place in which an explosive atmosphere is likely to occur occasionally in normal operation	**Zone 1**	**Zone 21**
Place in which an explosive atmosphere is not likely to occur in normal operation or, if it does occur, will persist for a short period only	**Zone 2**	**Zone 22**

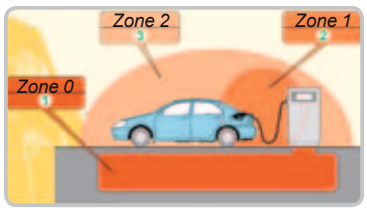
Definition

Product directive 2014/34/UE: defines the manufacturers' obligations.

Personal protection directive 99/92/CE: defines the users' obligations.

Degree of protection:
In hazardous areas, equipment is required to offer a minimum degree of protection of IP54, but it can be tested or certified with a higher degree of protection.

PB500060-47



PB500061-26



Equipment installed in an explosive atmosphere zone must be protected against the risk of explosion. Three levels of protection have been defined, corresponding to the three probabilities of existence of an explosive atmosphere. They are broken down into 5 categories depending on the type of industry.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
	2	High	Occasional	1 / 21
	3	Normal	Accidental	2 / 22

*** I = equipment designed to be used in the mining and quarrying industries**
II = equipment designed to be used in surface industries

Enclosures for explosive atmospheres
Introduction

> Protection of electrical equipment

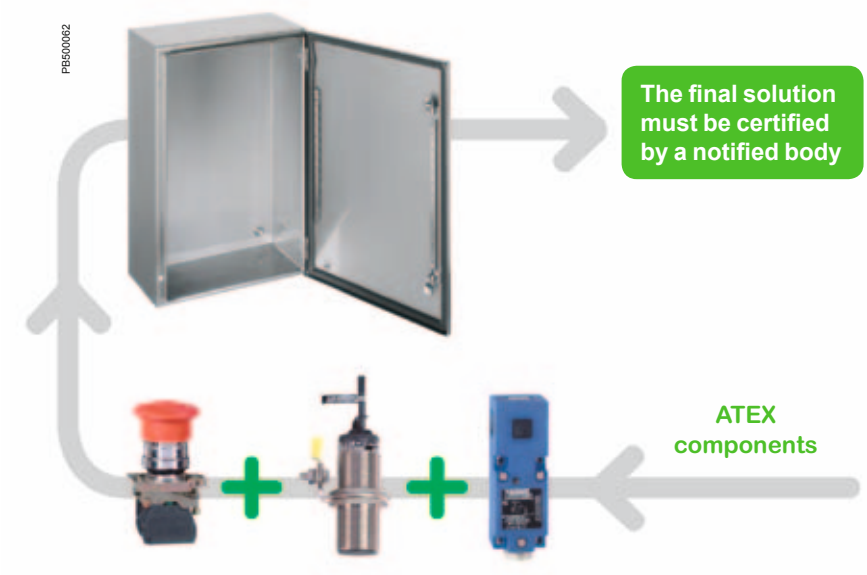
The standards have defined various methods of protection for electrical equipment depending on whether it is located in gaseous or dusty explosive atmospheres.

Electrical equipment		ATEX	Methods of protection	
CENELEC	CEI		Symbol	Title
EN 50015	CEI 60079-6	G	o	Immersion in oil
EN 50016	CEI 60079-2	G	p	Enclosures with internal overpressure
EN 50017	CEI 60079-5	G	q	Filling with powder product
EN 60079-1	CEI 60079-1	G	d	Explosion-proof enclosures
EN 60079-7	CEI 60079-7	G	e	Enhanced safety "e"
EN 50020	CEI 60079-11	G	i	Intrinsic safety
EN 60079-15	CEI 60079-15	G	n	Product design
EN 60079-31	CEI 60079-31	G	tD	Protection by enclosure "t"

* G = gas / vapour or mist
  D = dust

> ATEX certification of electrical switchboards

■ Since 1 July 2003, the European Union has made it compulsory to use certified equipment (electrical or non-electric) when it is to be installed in areas where the atmosphere is potentially explosive.
■ The certification must be established by an approved organization in accordance with the 2014/34/EU directive.
■ The organization certifies that the product complies with the health and safety requirements defined in the European directive and the international standards.
■ The certificate indicates, via the marking, the product's category and accordingly the zone and the atmosphere in which it can be used.
■ Cubicles are certified as components. They will be assembled with other ATEX components (electrical, pneumatic, hydraulic, etc.), to form an end solution which must itself be ATEX certified and covered by a declaration of conformity.



Enclosures for explosive atmospheres
Introduction

ATEX cubicles from Schneider Electric

> 3 **Material solutions** for wall-mounting enclosures

Steel **Stainless-steel** **Polyester**

Three types of enclosures

■ All the wall-mounting enclosures presented in this brochure comply with standards for protection against the potential risk of explosion in atmospheres charged with gas (G) or dust (D).

■ The Schneider Electric offer, designed to be used in group II, is classified as category 2.

Protection of equipment against explosions			ATEX	
Group *	**Category**	**Level**	**Probability**	**Zone**
I	M1	Very high	Permanent	0 / 20
	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
	2	High	Occasional	1 / 21
	3	Normal	Accidental	2 / 22

*** I = equipment designed to be used in the mining and quarrying industries**
II = equipment designed to be used in surface industries

Zone of application of Schneider Electric ATEX wall-mounting enclosures.

■ Category 2 products can be used as category 3.

■ Our products are certified:

□ for gaseous atmospheres: in enhanced safety "e" (Ex e) but not in explosion-proof safety "d" (Ex d);

□ for dusty atmospheres: in protection by enclosure "t" or "tb".

■ The wall-mounting enclosures offer a degree of protection IP66 according to EN 60529, exceeding the recommendations of the ATEX directive.

■ Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

Enclosures for explosive atmospheres
Introduction

PB501817-54



> Industrial environments, equipment rooms

Spacial S3DEX steel enclosure

- The **Spacial S3DEX steel enclosure** is certified by the LCIE with no. LCIE 02ATEX0037U (component certification).
- Ten sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP66.
- Ambient temperature limits: -20°C ≤ Ta ≤ +40°C.
- Resistance to external mechanical impacts: IK10.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.

PB501818-56



> Laboratories, agri-business industry, specific hygiene and corrosion demands

Spacial S3XEX stainless-steel enclosure

- The **Spacial S3XEX stainless-steel enclosure** is certified by the LOM with no. LOM 09ATEX3068U (component certification).
- Seven sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP66.
- Ambient temperature limits: -25°C ≤ Ta ≤ +60°C.
- Resistance to external mechanical impacts: IK10.
- Scotch-Brite® brushed finish.

PB501819-58



> Seaside, petrochemical, severely corrosive environments

Thalassa PLMEX polyester enclosure

- The **Thalassa PLMEX polyester enclosure** is certified by the LOM with no. LOM 10ATEX3051U (component certification).
- Seven sizes: from 308 x 255 x 164 mm to 1056 x 852 x 350 mm.
- Degree of protection: IP66.
- Ambient temperature limits: -25°C ≤ Ta ≤ +60°C.
- Resistance to external mechanical impacts: IK10.
- Black colour.

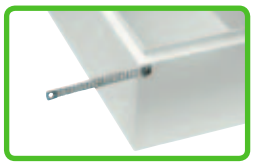
[!] In accordance with the ATEX directive

- The enclosures bear the marking shown page 562.
- The enclosures offer a degree of protection of IP66 according to EN 60629, reaching the highest dust protection according to ATEX standards.
- The certification of our production sites and inspection procedures guarantees the observance and regularity of the quality level.

Protective of all applications in ATEX II2 or II3 areas –surface installations with occasional or accidental – thanks to ATEX-certified steel, stainless-steel and polyester enclosures.

Enclosures for explosive atmospheres
Introduction

PB500411-32



Personnel safety
Blind nut for external earth connection.

PB500407-32



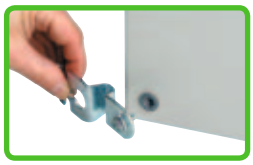
Earthing studs welded to the door and inside the body.

PB502996-32



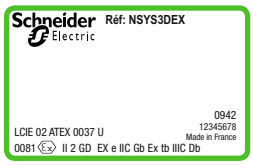
Robust
The chassis is mounted on four 10-mm shouldered backstuds.

PB500413-32



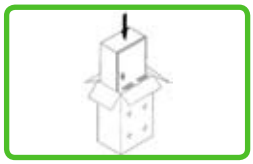
The 4 fixing holes are blocked by 4 crimped blind nuts.

DB300871



Label
Example of specific ATEX marking (description: page 562).

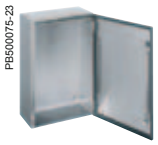
DB300073-12



Easy handling
- Reusable, eco-friendly packaging.
- No sharp corners.

Enclosures for explosive atmospheres
Characteristics, accessories



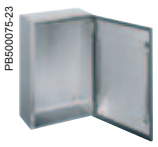


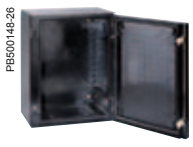
Characteristics	Spacial S3DEX	Spacial S3XEX
	Protection for users ■ Earthing: The Spacial S3DEX steel cubicles are provided with M6 x 16 earth studs welded to the casing and door for equipotential connection. Earth strap to be ordered separately. ■ Closing: Above a height of 600 mm the cubicles are provided with three fastening points with connecting rods, with a single control point preventing the cubicles from being left half-open. **Casing** ■ Monobloc casing (cross structure). Gutter-shaped front profile. ■ 4 bottom shoulder studs M8 x 25 for mounting the chassis and notched bars to provide a space of 10 mm at the rear. **Door** ■ Standard fastening by 3 mm double-bar lock ■ Polyurethane door seal ■ Double-thickness 20 mm return conferring excellent rigidity; ■ 2 invisible hinges (3 above H = 800 mm) facilitate dismounting and reversibility of the door. Opening angle: 120° ■ Maximum load: 50 kg/m². ■ Pierced sections on the door, with holes of diameter 4.2 mm every 25 mm for mounting accessories: □ 2 vertical sections as of H = 400 mm; □ 2 vertical sections and 2 horizontal sections as of L = 800 mm. **Specific ATEX features** ■ 4 fastening holes stopped up by 4 crimped blind nuts. ■ One crimped M8 blind nut for an external frame earth link (strap not provided) ■ Ambient temperature: -20°C ≤ Ta ≤ +40°C ■ Marking: see page 562.	**Protection for users** ■ Earthing: The Spacial S3XEX steel cubicles are provided with M6 x 16 earth studs welded to the casing and door for equipotential connection. Earth strap to be ordered separately (see page 301). **Outdoor installation** ■ It is recommended to always install an awning to prevent water from stagnating in the upper part of the cubicles. **Casing** ■ Monobloc casing (cross structure). Gutter-shaped front profile. **Door** ■ Standard fastening by 3 mm double-bar lock (chromium-plated zamak). ■ 2 fastening points as of a height of 500 mm. ■ Stainless steel hinges screwed onto the cubicle casing, to facilitate dismounting and reversibility of the door. Opening angle: 120°. ■ Maximum load: 50 kg/m². ■ 2 pierced vertical sections on the door (as of H = 600 mm), with drilled holes of diameter 4.25 mm every 25 mm for mounting accessories. ■ Door strengthening frame (as of H = 1000 mm), cross section 20 mm x 15 mm, with holes of diameter 5 mm every 25 mm. **Specific ATEX features** ■ 4 fastening holes stopped up by 4 crimped blind nuts ■ One crimped M6 blind nut for an external frame earth link (strap not provided). ■ Ambient temperature: -25°C ≤ Ta ≤ +60°C. ■ Marking: see page 562.
Material	Steel	Stainless-steel material AISI 304L (316L on request)
Finish	Structured finish, epoxy-polyester powder paint	Scotch-Brite® brushed finish
Colour	RAL 7035 grey	-
Ingress protection rating	IP66 (enclosures with single door)	IP66 (enclosures with single door)
Mechanical protection rating	IK10 (enclosures with plain door)	IK10 (enclosures with plain door)
Fixing	■ Wall-fixing lugs: □ Passivated zinc-coated steel: reference **NSYAEFPFSC**. □ 304L stainless-steel: reference **NSYAEFPFXSC**.	■ The wall-fixing lugs are compulsory; they are blocked by sealing plugs. □ 304L stainless-steel: reference **NSYPFCX**. □ 316L stainless-steel: reference **NSYPFC2X**.

The accessories of the Spacial standard wall-mounting enclosures can be installed in the Spacial S3DEX wall-mounting enclosures. However, plastic accessories should not be used, due to the risk of a static charge.

The accessories of the Spacial S3X enclosure can be installed in the Spacial S3XEX enclosure.However, plastic accessories should not be used, due to the risk of a static charge.







Characteristics			Spacial S3DEX	Spacial S3XEX	Thalassa PLMEX
Dimensions (mm)					
Height	**Width**	**Depth**	**References**		
300	200	150	**NSYS3DEX3215**	**NSYS3XEX3215**	-
	300	200	**NSYS3DEX3320**	-	-
308	255	160	-	-	**NSYPLMEX3025**
400	300	200	**NSYS3DEX4320**	**NSYS3XEX4320**	-
	400	200	**NSYS3DEX4420**	-	-
430	330	200	-	-	**NSYPLMEX43**
500	400	200	**NSYS3DEX5420**	**NSYS3XEX5420**	-
530	430	200	-	-	**NSYPLMEX54**
600	400	200	-	**NSYS3XEX6420**	-
		250	**NSYS3DEX6425**	-	-
	600	250	**NSYS3DEX6625**	-	-
647	436	250	-	-	**NSYPLMEX64**
700	500	250	**NSYS3DEX7525**	**NSYS3XEX7525**	-
747	536	300	-	-	**NSYPLMEX75**
800	600	250	-	**NSYS3XEX8625**	-
		300	**NSYS3DEX8630**	-	-
847	636	300	-	-	**NSYPLMEX86**
1000	800	300	**NSYS3DEX10830**	**NSYS3XEX10830**	-
1056	852	350	-	-	**NSYPLMEX108**

Enclosures for explosive atmospheres
Characteristics, accessories

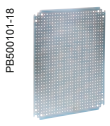


Characteristics	Thalassa PLMEX		
	Specific ATEX characteristics ■ The surface resistance is < 109 Ω. ■ Ambient temperature limits: -25°C ≤ Ta ≤ +60°C. ■ Marking: see page 562.		
Colour	RAL 9004 black		
Ingress protection rating	IP66 (enclosures with single door)		
Mechanical protection rating	IK10 (enclosures with plain door)		
Fixing	■ The enclosures must be fixed by 4 stainless-steel lugs, which are mounted in inserts to be placed on the rear of the enclosure, in horizontal or vertical position. Ref.: **NSYPFXPLM**.		
References	**NSYPLMEX3025**	**NSYPLMEX43/54/64/75/86**	**NSYPLMEX108**
Built-in canopy	No	Yes	Yes
Opening	120°	180°	180°
Pins	Stainless-steel	Polyamide	Stainless-steel
Locking system	2 double-bar lock	2 double-bar lock	1 lock with doublebar insert and 4-point closure
Lock outside sealed zone	No	Yes	Yes
Notch system for DIN rails every 25 mm	No	Yes	Yes
Mounting plate assembly	Installed studs	Inserts and studs	Inserts and studs

[!] Accessories for Thalassa PLM enclosures can be installed in Thalassa PLMEX enclosures.
However, plastic accessories should not be used, due to the risk of a static charge.















Characteristics			Accessories						
Dimensions (mm)			**Mounting plates**				**Mixed symmetrical chassis**	**Step slides**	**Padlocking**
			Plain	**Silkscreened**	**Microperforated**	**Telequick**			
Height	**Width**	**Depth**							
300	200	150	**NSYMM32**	-	-	**NSYMR32**	-	-	-
	300	200	**NSYMM33**	-	**NSYMF33**	**NSYMR33**	**NSYMD33**	**NSYSDCR200**	-
308	255	160	**NSYMM3025**	-	-	**NSYMR3025**	-	-	-
400	300	200	**NSYMM43**	**NSYMS43**	**NSYMF43**	**NSYMR43**	**NSYMD43**	**NSYSDCR200**	-
	400	200	**NSYMM44**	**NSYMS44**	**NSYMF44**	-	-	**NSYSDCR200**	-
430	330	200	**NSYMM43**	**NSYMS43**	**NSYMF43**	**NSYMR43**	-	**NSYDPLM200**	**NSYKPLM**
500	400	200	**NSYMM54**	**NSYMS54**	**NSYMF54**	**NSYMR54**	**NSYMD54**	**NSYSDCR200**	-
530	430	200	**NSYMM54**	**NSYMS54**	**NSYMF54**	**NSYMR54**	-	**NSYDPLM200**	**NSYKPLM**
600	400	200	**NSYMM64**	**NSYMS64**	**NSYMF64**	**NSYMR64**	**NSYMD64**	**NSYSDCR200**	-
		250	**NSYMM64**	**NSYMS46**	**NSYMF64**	**NSYMR64**	**NSYMD64**	**NSYSDCR250**	-
	600	250	**NSYMM66**	**NSYMS66**	**NSYMF66**	**NSYMR66**	**NSYMD66**	**NSYSDCR250**	-
647	436	250	**NSYMM64**	**NSYMS64**	**NSYMF64**	**NSYMR64**	-	**NSYDPLM250**	**NSYKPLM**
700	500	250	**NSYMM75**	**NSYMS75**	**NSYMF75**	**NSYMR75**	**NSYMD75**	**NSYSDCR250**	-
747	536	300	**NSYMM75**	**NSYMS75**	**NSYMF75**	**NSYMR75**	-	**NSYDPLM300**	**NSYKPLM**
800	600	250	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**	**NSYMD86**	**NSYSDCR250**	-
		300	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**	**NSYMD86**	**NSYSDCR300**	-
847	636	300	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**	-	**NSYDPLM300**	**NSYKPLM**
1000	800	300	**NSYMM108**	-	**NSYMF108**	**NSYMR108**	**NSYMD108**	**NSYSDCR300**	-
1056	852	350	**NSYMM108**	-	**NSYMF108**	**NSYMR108**	-	**NSYDPLM350**	**NSYBCPL**

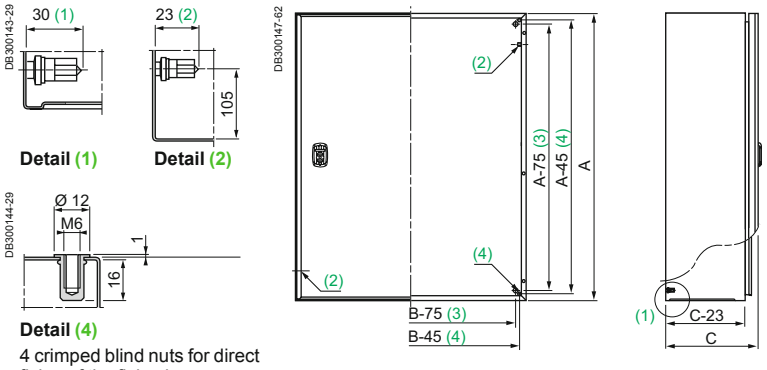
Enclosures for explosive atmospheres
Dimensions

Spacial S3DEX

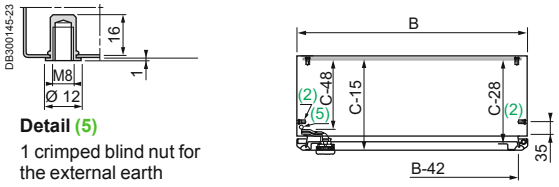
1-door enclosure

A: Height
B: Width
C: Depth

(1) 4 M8 x 25 mm backstuds.
(2) 2 M6 x 17.5 mm earthing studs.
(3) Stud centre-to-centre distance.
(4) Crimped blind nut centre-to-centre distance.
(5) Blind nut for external earth.

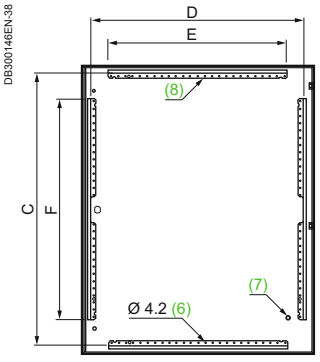


4 crimped blind nuts for direct fixing of the fixing lugs



1 crimped blind nut for the external earth

Perforated rails on the door

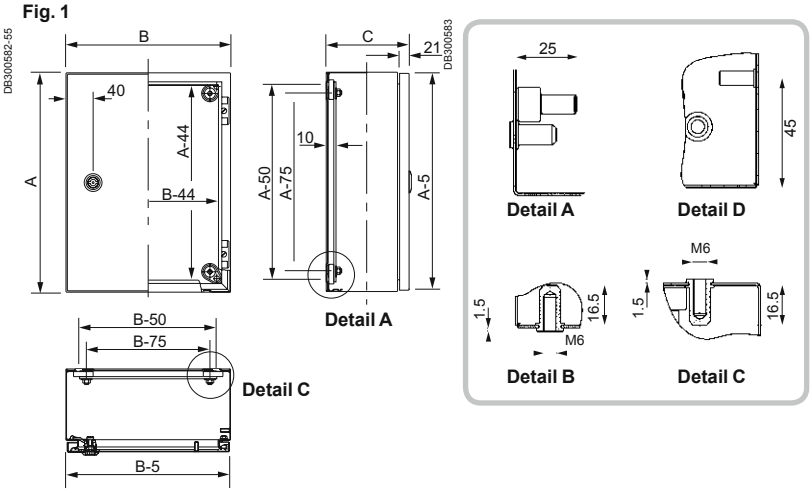


(6) Perforations with a pitch of 25 mm.
(7) 1 M6 x 17.5 mm earthing stud.
(8) The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal wire guides.

Enclosure (8)		Perforated rails on the door (mm)			
Height (A) (mm)	Width (B) (mm)	Vertical		Horizontal	
		F	D	E	C
400	300	320	237	-	-
	400	320	337	-	-
600	400	370	337	-	-
	600	370	537	-	-
700	500	470	437	-	-
800	600	570	537	-	-
1000	800	770	737	620	949

Spacial S3XEX

Fig. 1



Life Is On Schneider Electric

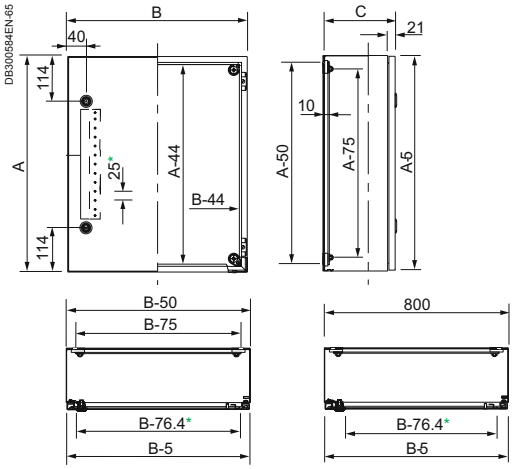
Enclosures for explosive atmospheres
Dimensions

Spacial S3XEX

External dimensions (mm)			
Height (A)	**Width (B)**	**Depth (C)**	**Fig.**
300	200	150	1
400	300	200	1
500	400	200	2**
600	400	200	2
700	500	250	2
800	600	250	2
1000	800	300	3

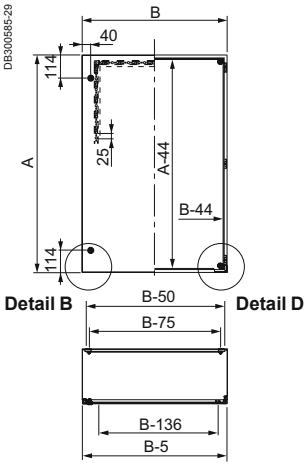
*** Without door reinforcement.*

Fig. 2



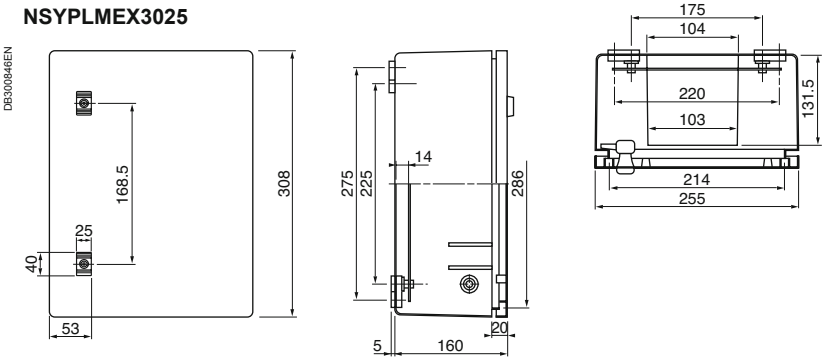
* *Door reinforcement.*

Fig. 3

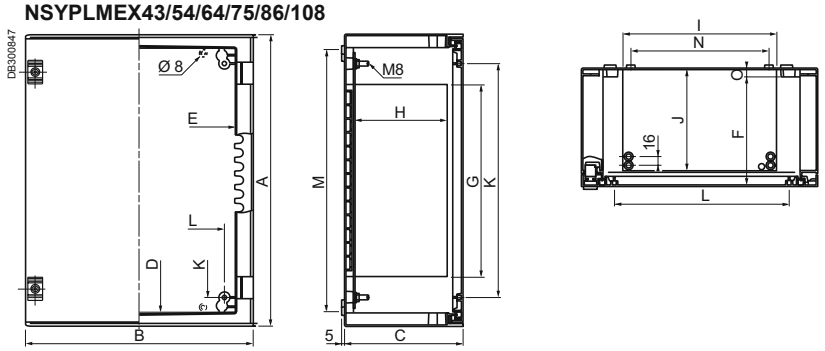


Thalassa PLMEX

NSYPLMEX3025



NSYPLMEX43/54/64/75/86/108



Dimensions (mm)										Bottom screw and door bosses		Fixing	
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**	**L**	**O**	**References**
430	330	200	380	260	181	247	150	179	168	325	225	13	**NSYPLMEX43**
530	430	200	480	360	181	347	150	279	168	425	325	13	**NSYPLMEX54**
647	436	250	580	360	228	388	192	279	212	525	325	13	**NSYPLMEX64**
747	536	300	680	460	278	487	241	379	261	625	425	15	**NSYPLMEX75**
847	636	300	780	560	278	587	241	479	261	725	525	15	**NSYPLMEX86**
1056	852	350	980	760	327	775	280	680	300	925	725	15	**NSYPLMEX108**

Human-Machine Interface Solutions

Steel

> Indoor non-clean industrial environment

Control enclosure with suspension system

PB500420-45



Control Desks

PB501195-23



PB501200-33

PB501199-29



PC racks

PB500501-34



Stainless-steel

> Demanding industrial environment

Control Desks

PB501267-40



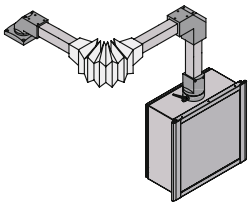
PC racks

PB501228-67



Human-Machine Interface

PB502200-32



Spacial S3CM Control enclosure with suspension system

The Spacial S3CM offer for human-machine interface combines **robustness** with **aesthetics** and **ergonomics**. Consist of:

- **control enclosure**,
- a **keyboard-box**,
- a **suspension system** of arms and joints, for a fixed or rotating solutions,
- and **support accessories**.

> See page 442

PB500068-61



Spacial SD Control desks

The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.
Spacial SD offers two clearly differentiated solutions:

- the **SD Compact control desk**,
- the **SD Control desk with console**.

The range has protection ratings of IP55 and IK10, which guarantee the safety and the protection of the installed devices.

> See page 452

PB500208-16



Spacial SF suitable PC rack

The Spacial SF PC rack is designed to protect and control computer equipment in an industrial environments.
Access to the various functions and working heights, guaranteeing optimum comfort.
The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

> See page 468

PB501267-30



Spacial SDX Control desks

The Spacial SDX range of control desks offers all the functions required to set up a control station that meets the industrial or infrastructural needs of applications in harsh environments or in the food and beverage sector.
Easy to implement, compatible with dialogue components, guaranteeing the security and protection of control devices, these control desks, with their range of dimensions, meet the strictest needs of their users.

> See page 453

PB501223-55



Spacial SMX monobloc PC rack

The stainless-steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.
Access to the various functions and working heights, guaranteeing optimum comfort.

> See page 472

Human-Machine Interface
Introduction

> The **Spacial S3CM offer** for human-machine dialogue consists of:
- control enclosures
- a box-keyboard
- a system of arms and joints fixed or rotating
- accessories.

The global dialogue system combines robustness with aesthetics and ergonomics.

PB500300-75



Human-Machine Interface Solutions

PB500433-33



Robust
■ 2 tube sizes in extruded steel, 50 and 80 mm square, thickness 40/10^{e} mm.
■ Top wall reinforced by a plate with a thickness of 30/10^{e} mm.

PB500418-29



Aesthetics
■ Extruded aluminium rail frame.
RAL 7040 paint: frame.
RAL 7035 paint: enclosure.
■ Customisation to your image or the aesthetics of your machine: consult us.

PB500446-37



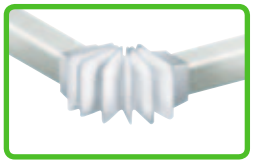
Ergonomics
Frame designed for handling the enclosure and facilitating the usage by the operator.

PB500439-21



Easy
Easy access to the equipment by a rear door, opening to 120°.
■ Direct installation of accessories on the enclosure frame rail:
□ vertical document support,
□ keyboard support,
□ laptop computer support.
■ A box-keyboard is installed directly on the enclosure.

PB500300



Flexibility
Rotation through 170°; complete range of joints, fixed or rotating.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

Human-Machine Interface
Introduction

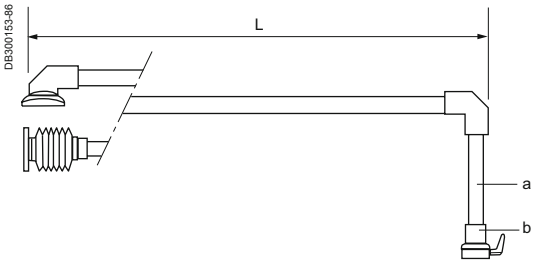
Every model is suitable for tubes with a square section of:
- **50 mm for medium loads,**
- **80 mm for heavy loads**

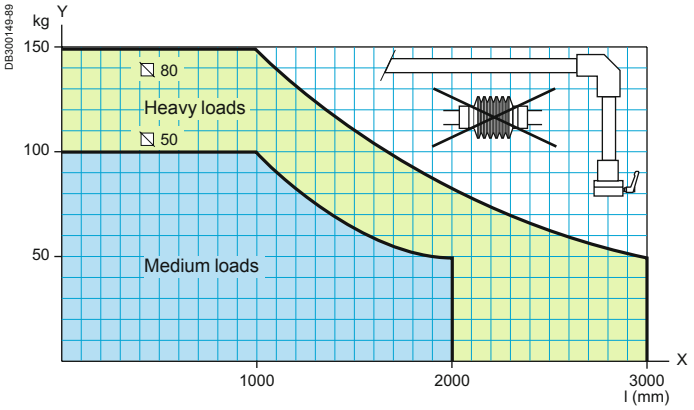
(see selection table on page 450).

Steps to choose the suspension system (medium or heavy loads)

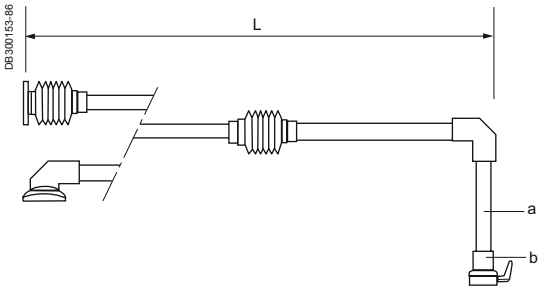
1 - Define the total load of the system*: a + b + enclosure + installed equipment (Y axis).
2 - Define the length of arm L (X axe).
3 - Define the configuration:

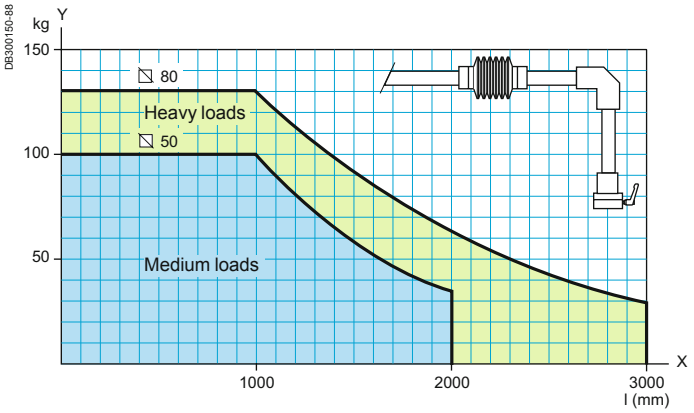
■ Suspension system **without** intermediate joint.





■ Suspension system **with** intermediate joint.



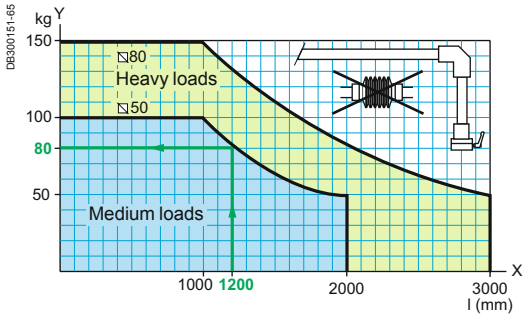


** The load (a + b + enclosure + installed equipment) must be less than the maximum load.*

Example

1 - Total load (kg) = 80 kg.
2 - Length (L) = 1200 mm.
3 - Suspension system without intermediate joint.

Recommended system
> Medium loads ⌀ 50.



Human-Machine Interface
Characteristics

PB500431-32



Perforated rails installed on lateral studs.

PB500432-49



Rear door with double-bar lock.

PB500417-33



Detail of the reinforcement plate.

PB500434-44



Fixing of the trim frame by screws.

PB500435-66



Characteristics	Spacial S3CM
	The control enclosures consist of: ■ A steel body equipped with: □ reinforcement plate: the top wall is reinforced by a plate (3 mm) and pierced with a hole Ø 54 or 87 mm (according to the reference) to allow hanging installation of the enclosure, □ 4 welded studs on the 2 inner vertical walls, for fixing the rails, □ 2 rails (with drill holes) for installing equipment, □ a rear door, opening to 120° and closing with double-bar lock. ■ An aluminium front face (2.5 mm thick): □ this surface is protected on both sides by a plastic film, allowing the installation of the dialogue elements, □ a trim frame made from 4 extruded-aluminium rails: the frame and the front face are delivered assembled. Structured finish, epoxy-polyester powder, RAL 7040 grey colour (other colours on demand). ■ The design of these rails takes into account the accessory mounting functions (lamp, document support, keyboard support, laptop support, etc.), the ergonomics for handling the enclosure and its overall aesthetics.
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP54
Mechanical protection rating	IK10

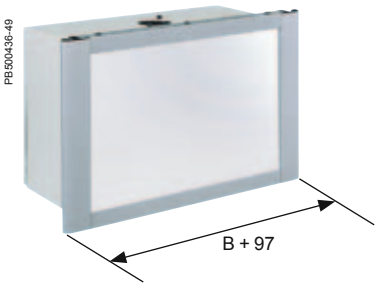
Enclosure dimensions (mm)			Enclosure load (kg)	Tube section (mm)	References
Height	Width	Depth			
300	300	200	8.6	50	**NSYS3CM303020**
	400	200	9.5	50	**NSYS3CM304020**
400	400	200	11.4	50	**NSYS3CM404020**
	600	250	17.9	50	**NSYS3CM406025***
500	500	250	20.2	50	**NSYS3CM505025**
600	600	200	26.5	50	**NSYS3CM606020***
	800	300	34.9	80	**NSYS3CM608030**
800	600	300	33.6	80	**NSYS3CM806030***

** Enclosure equipped with a cable-gland plate.*

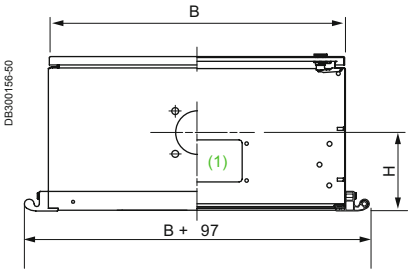
Human-Machine Interface
Dimensions

Enclosure dimensions (mm)								Cable-gland plate	Ø Top hole (mm)	Fig.	Enclosure
Height (A)	Width (B)	Depth (C)	D	F	G	H	J				References
300	300	200	162	262	262	100	45	-	54	1	**NSYS3CM303020**
	400	200	162	362	262	100	45	-	54	1	**NSYS3CM304020**
400	400	200	262	362	362	100	45	-	54	1	**NSYS3CM404020**
	600	250	262	562	362	125	75	■	54	1	**NSYS3CM406025***
500	500	250	362	462	462	125	75	-	54	1	**NSYS3CM505025**
600	600	200	462	562	562	100	45	■	54	1	**NSYS3CM606020***
	800	300	462	762	562	150	100	-	87	2	**NSYS3CM608030**
800	600	300	662	562	762	150	100	■	87	2	**NSYS3CM806030***

** Enclosure equipped with a cable-gland plate.*



W600 enclosure + box-keyboard installation



(1) Cable-gland plate.

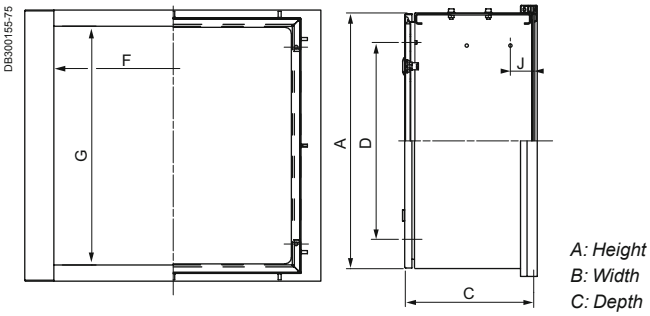


Figure 1
Enclosure depth from 200 to 250

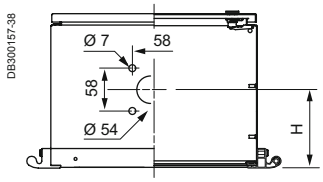
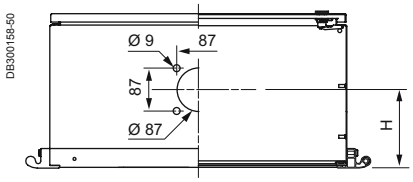
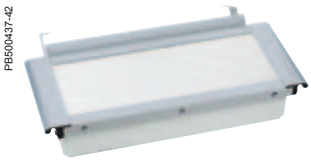


Figure 2
Enclosure depth 300

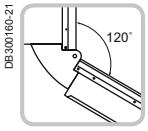


Human-Machine Interface
Specific accessories

Box-keyboard for control enclosure



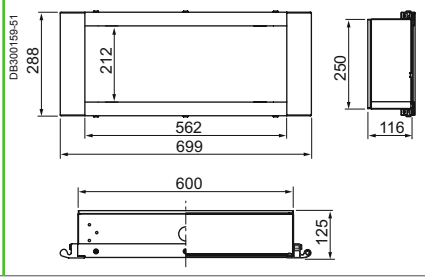




Detail from the installation of the box-keyboard on the control enclosure.

Characteristics	Box-keyboard for control enclosure
	The box is installed on the control enclosures with a width of 600 mm. It then has an angle of 120° with its front face. All the accessories required for installation are delivered with 2 brackets and 1 trim rail, 1 hose for cable entry. The box for the keyboard consists of: ■ a steel body, structured finish, epoxy-polyester powder, RAL 7035 grey colour, with a screwed cover, ■ an aluminium front face (2.5 mm thick) for installing a keyboard, ■ a trim frame made from 2 extruded-aluminium rails guaranteeing ergonomic handling of the box and the aesthetics of the unit. The frame and the front face are delivered assembled. Structured finish, epoxypolyester powder, RAL 7040 grey colour.
Ingress protection rating	IP54
Mechanical protection rating	IK10
Weight	8 kg

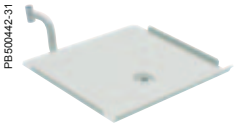
Reference			
Height (mm)	**Width (mm)**	**Depth (mm)**	
250	600	116	**NSYCMT2560110**





Support

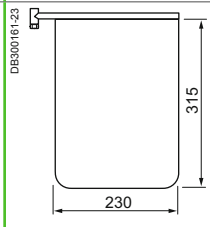


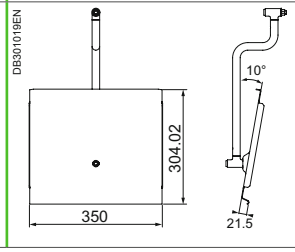


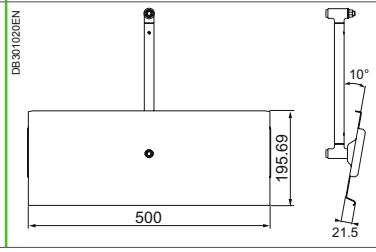


Characteristics	Support		
	Vertical	**Laptop computer**	**Keyboard**
	Installation on the left or right rail of the frame of the control enclosure.		
Material	Sheet steel		
Finish	Structured finish, epoxy-polyester powder		
Colour	RAL 7035 grey		
Thickness	15/10e mm	15/10e mm	15/10e mm
Weight	1.15	2.04	2.16

References					
Height (mm)	**Width (mm)**	**Depth (mm)**			
315	230	-	**NSYCMSPP**	-	-
-	350	310	-	**NSYCMBPC**	-
-	500	200	-	-	**NSYCMBPT**

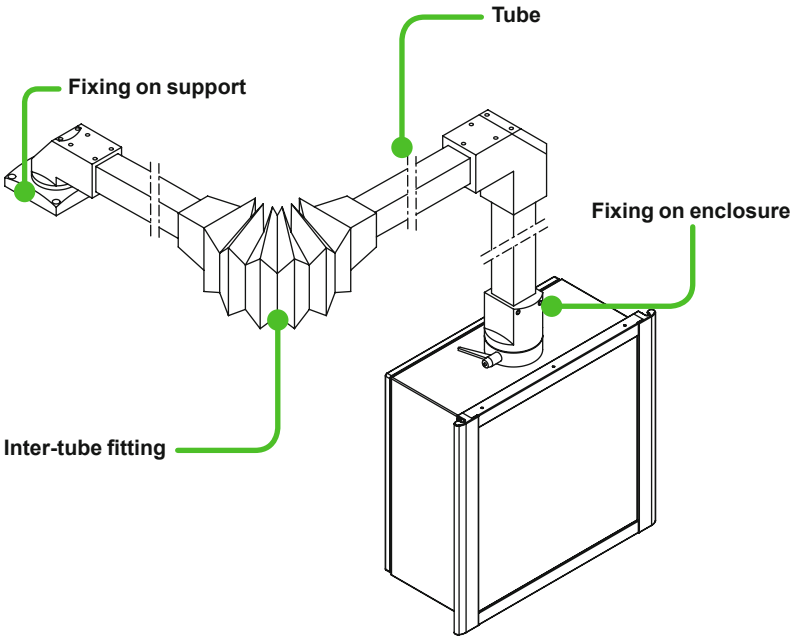




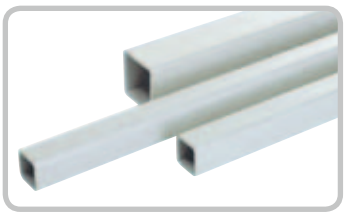


Human-Machine Interface
Specific accessories

Suspension system



PB500422

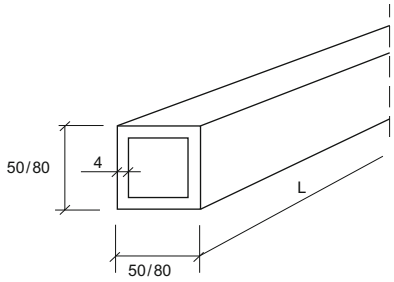


Tube

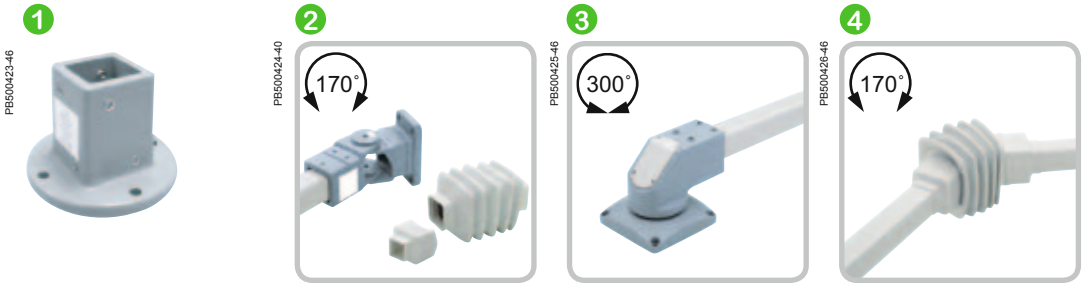
- The tubes are available in:
  - 2 sizes: square of 50 and 80 mm,
  - 4 lengths: 0.5, 1, 1.5 and 2 m.
- **Material:** extruded steel.
- **Finish:** structured finish, powder.
- **Colour:** RAL 7035 grey.
- **Thickness:** 40/10e mm.
- **Weights:**
  - 50 x 80: 6.5 kg/m,
  - 80 x 80: 10.5 kg/m.

Joints	50 mm square	80 mm square
Length (m)	References	
0.5	NSYCMT5005	NSYCMT8005
1	NSYCMT5010	NSYCMT8010
1.5	NSYCMT5015	NSYCMT8015
2	NSYCMT5020	NSYCMT8020

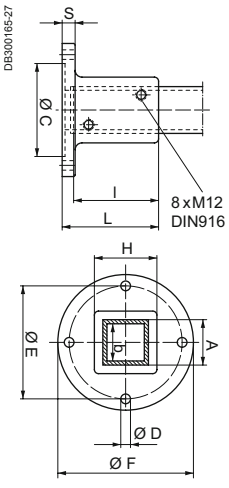
DB300174-62

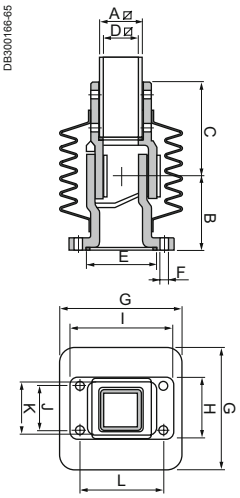


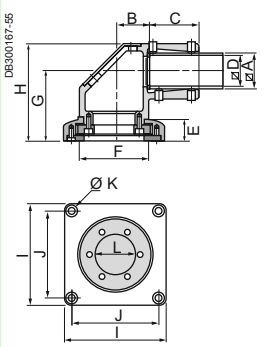
Suspension system

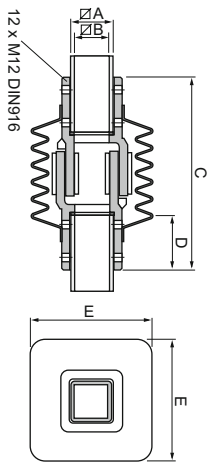


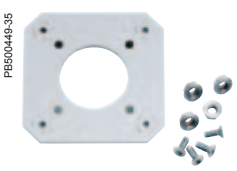
Characteristics	Fixed base		Wall fixing with joint		Rotating straight fitting		Horizontal inter-tube joint	
	Support foot for direct horizontal or vertical connection.		Device allowing rotation through 170° of a horizontal tube, with a square section of 50 or 80 mm, and its fixing on a vertical surface. Protection by bellows, RAL 7035 grey colour. Possibility of passing cables through the inside of the joint.		Device allowing the fixing and rotation through 295° of tubes, with a square section of 50 or 80 mm, in horizontal position. Without blocking the chosen position. Fixing by 4 screws, not included.		Device allowing the linking and rotation through 170° of 2 horizontal tubes, with a square section of 50 or 80 mm. Protection by bellows, RAL 7035 grey colour. Possibility of passing cables through the inside of the joint.	
Material	Moulded steel		Moulded steel		Moulded steel		Moulded steel	
Colour	RAL 7040 grey		RAL 7040 grey		RAL 7040 grey		RAL 7040 grey	
Weight (kg)	3.25	7	4.35	9.45	5.4	15.7	4.25	10
Dimensions (mm)								
Ø A	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**
B	42	72	92	115	50	74	42	72
C	105	134	118	160	68	98	236	320
D	11	11	42	72	42	72	67	94
E	125	173	85	130	30	45	148	190
F	152	201	11	11	96	144	-	-
G	-	-	148	190	96	141.5	-	-
H	72	111	80	115	134	195.5	-	-
I	97	126	130	175	140	210	-	-
J	-	-	55	90	120	180	-	-
K	-	-	68	103	9	13	-	-
L	110	140	105	150	55	84	-	-
S	15	16	-	-	-	-	-	-
References								
	NSYCMUMR50	**NSYCMUMR80**	**NSYCMUMA50**	**NSYCMUMA80**	**NSYCMUMC50**	**NSYCMUMC80**	**NSYCMUIA50**	**NSYCMUIA80**







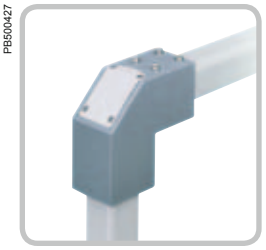




Adapter part for enclosure D300 / Ø 80 mm
Reference
NSYCMUCPAD87

Human-Machine Interface
Accessories

Suspension system

5

PB500427

6


PB500428-42

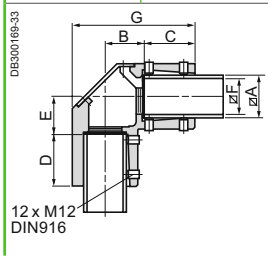
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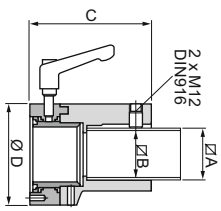

PB500429

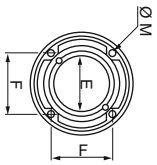
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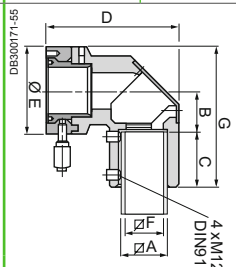
PB500430-48

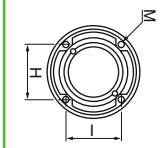
Characteristics	Fixed bracket		Rotating fixing on enclosure		Rotating fixing in bracket on enclosure		Tilting fixing on enclosure	
	Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue. Device allowing the combination and fixing of a horizontal tube with a vertical tube.		Device allowing the fixing and rotation through 310° of tubes, with a square section of 50 or 80 mm, in vertical position. System for blocking in the chosen position. Fixing through the support surface by 4 screws.		Devices allowing the fixing and rotation through 310° of tubes, with a square section of 50 or 80 mm, in horizontal position. System for blocking in the chosen position. Fixing through the support surface by 4 screws.		This fixing allows the enclosures to be tilted up to 30°. System for blocking in the chosen position. It is installed on enclosures with depths of 200 and 250 mm. The installation on enclosures with a depth of 300 mm requires an adapter plate.	
Material	Aluminium		Aluminium		Aluminium		-	
Colour	RAL 7040 grey		RAL 7040 grey		RAL 7040 grey		-	
Weight (kg)	1.35	2.4	1.25	3.1	2	6.55	2.98	3.10
Dimensions (mm)								
Ø A	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**	**50 mm square**	**80 mm square**
B	46	56	42	72	46	56	55	55
C	60	83	115	145	60	83	100	100
D	60	83	96	139	147	190	44	44
E	46	56	52.3	85	96	139	121	121
F	42	70	58	87	42	72	182	182
G	144	193	-	-	154	208.5	50	50
H	-	-	-	-	42	70	100	100
I	-	-	-	-	58	87	50	50
M	-	-	M6	M8	M6	M8	-	-
References								
	NSYCMUTC50	**NSYCMUTC80**	**NSYCMUCR50**	**NSYCMUCR80**	**NSYCMUCC50**	**NSYCMUCC80**	**NSYCMUCP50**	**NSYCMUCP80**

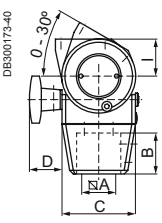
DB300169-33


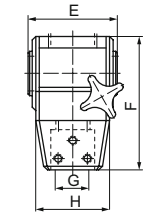
DB300170-53




DB300171-55




DB300173-40


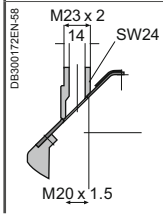


Adapter for signalling beacon

PB500448-17


- It is installed on fixed brackets ref. **NSYCMUTC50** and **NSYCMUTC80**.
- **Material:** aluminium.
- **Finish:** structured finish, powder.
- **Colour:** RAL 7040 grey.

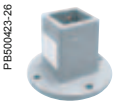
Weight	0.025 kg	0.08 kg
Ø A	50 mm square	80 mm square
References		
	NSYCMACS50	**NSYCMACS80**

DB300172EN-58


Human-Machine Interface
Selection guide

Enclosure	H x W x D (mm) top wall	References Tube section Ø 50 mm	Ø 80 mm
 PB500421-24	300 x 300 x 200	NSYS3CM303020	-
	300 x 400 x 200	NSYS3CM304020	-
	400 x 400 x 200	NSYS3CM404020	-
	400 x 600 x 250	NSYS3CM406025*	-
	500 x 500 x 250	NSYS3CM505025	-
	600 x 600 x 200	NSYS3CM606020*	-
	600 x 800 x 300	-	NSYS3CM608030
	800 x 600 x 300	-	NSYS3CM806030*

Tube	Length (m)	References Tube section Ø 50 mm	Ø 80 mm
 PB500422-33	0.5	NSYCMT5005	NSYCMT8005
	1	NSYCMT5010	NSYCMT8010
	1.5	NSYCMT5015	NSYCMT8015
	2	NSYCMT5020	NSYCMT8020

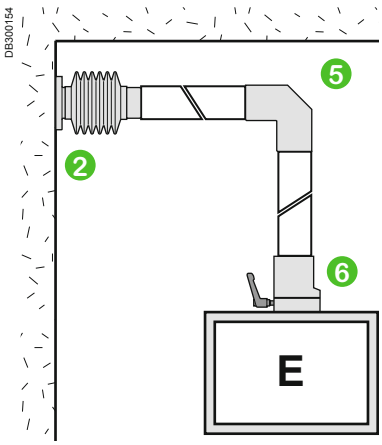
Fixing on support (steel material)		References Tube section Ø 50 mm	Ø 80 mm
 PB500423-26	1 Fixed base	NSYCMUMR50	NSYCMUMR80
 PB500424-25	2 Wall fixing with joint	NSYCMUMA50	NSYCMUMA80
 PB500425-30	3 Rotating straight fitting	NSYCMUMC50	NSYCMUMC80

Inter-tube fitting (aluminium material)		References Tube section Ø 50 mm	Ø 80 mm
 PB500426-28	4 Horizontal inter-tube joint	NSYCMUIA50	NSYCMUIA80
 PB500427-24	5 Fixed bracket	NSYCMUTC50	NSYCMUTC80

Fixing on enclosure (aluminium material)		References Tube section Ø 50 mm	Ø 80 mm
 PB500428-18	6 Rotating fixing on enclosure	NSYCMUCR50	NSYCMUCR80
 PB500429-28	7 Rotating fixing in bracket on enclosure	NSYCMUCC50	NSYCMUCC80
 PB500430-23	8 Tilting fixing on enclosure	NSYCMUCP50	NSYCMUCP80 (1)

** Enclosure equipped with a cable-gland plate.*
(1) Installation on an enclosure D300 requires plate ref. ***NSYCMUCPAD87*** *(see page 448).*

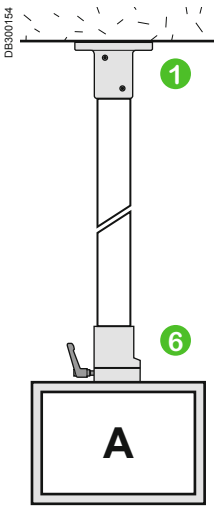
Human-Machine Interface
Examples



Fixing on support
2 See page 448

Inter-tube fitting
5 See page 449

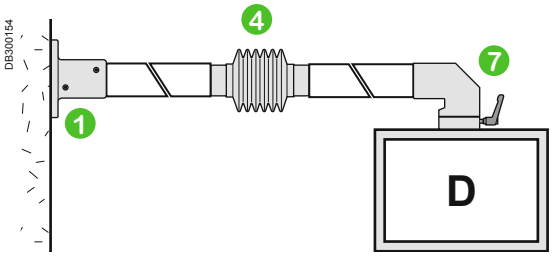
Fixing on enclosure
6 See page 449



Fixing on support
1 See page 448

Inter-tube fitting
-

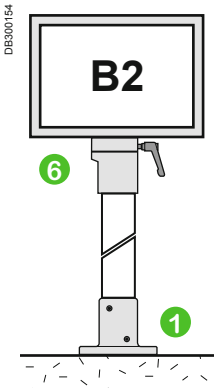
Fixing on enclosure
6 See page 449



Fixing on support
1 See page 448

Inter-tube fitting
4 See page 448

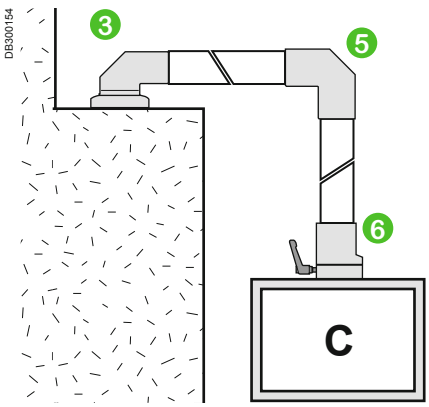
Fixing on enclosure
7 See page 449



Fixing on support
1 See page 448

Inter-tube fitting
-

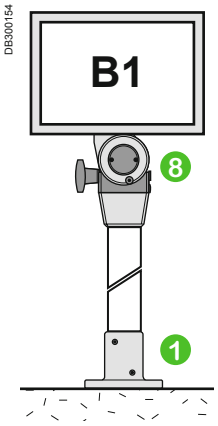
Fixing on enclosure
6 See page 449



Fixing on support
3 See page 448

Inter-tube fitting
5 See page 449

Fixing on enclosure
6 See page 449



Fixing on support
1 See page 448

Inter-tube fitting
-

Fixing on enclosure
8 See page 449

Human-Machine Interface
Introduction

SD

> The range of **Spacial SD** control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.

PB501202-46



PB501201-46

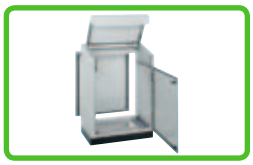


PB501208-46



Steel control desks

PB501202-16



Accessibility
There are two versions of the Compact control desk:
- Front accessibility: designed for straightforward solutions.
- Front and rear accessibility through a removable panel: enables the installation of two adjoining plates and to work at the rear.

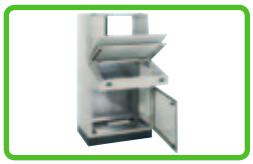
The control desk with console offers full accessibility, since it is fully accessible from the rear thanks to the 3-point closure door it includes.
For Spacial SD, the accessibility which allows quick and easy work is one of its main priorities.
For this reason, its design excludes the central upright.

PB501197-32



Easy
The console opens easily and safely thanks to the installed pneumatic opening lid stays.
Cable entry is optimised because all the models of the range include a cable-gland plate with two adjustable parts.

PB501199-14



Convenience
The possibility of connecting the modular control desk to the modular consoles affords multiple combinations.
The opening direction of the door can be changed quickly thanks to the included hinges.

PB501194-19



Compatibility
Furthermore, the Spacial SD control desk is compatible with most of the accessories of the Spacial SF and SM ranges.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

See page 480 for details or consult our web site www.schneider-electric.com

Human-Machine Interface
Introduction

SDX

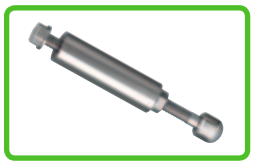
> The association of a monobloc control desk with one or more consoles enables all combinations. Complete accessibility to the inside of the control desk thanks to its design without intermediate crossbars.

PB501224-56



Stainless-steel control desks

PB502438-5



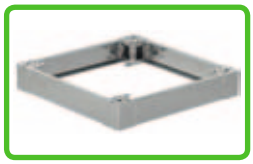
Hygiene
The high quality of the standard finish enables very easy maintenance while avoiding contamination. The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.

PB501232-32



Resistance to corrosion
High resistance to corrosion. 304L and 316L stainless-steels provide the best solutions for applications in extremely demanding environments.

PB502481-30



Compatibility with the other ranges
- ■ Stainless-steel accessories:
- □ plinths, locks.
- ■ Accessories of the steel control desks offer:
- □ mounting plate, pneumatic opening stay, etc.

PB501269

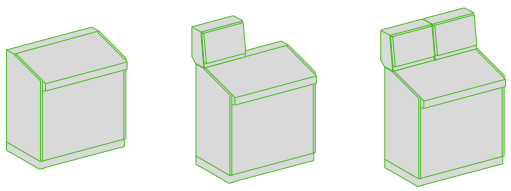


Convenient
The desk lid and the console are equipped with pneumatic opening stays (opening to 75°) allowing complete access to the inside and preventing sudden falls of the console or the hinged cover.
Equipped with adjustment rails for adjusting the depth of the mounting plate. Removable rear panel.

Examples of associations

Consoles and control desks

DE300593



Multiple combinations available.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

See page 480 for details or consult our web site www.schneider-electric.com

Human-Machine Interface
Characteristics

SD



SD



Characteristics	Compact control desk	Control desk with console
	Sheet steel	**Sheet steel**
	This range is available in 4 widths with fixed rear panel. Full accessibility is provided from the front (no central upright). Easy removable and reversible door opening to 120°. Locking by 3-mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 464). Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm. Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth. Cable-gland plate with 2 adjustable parts, with polyurethane gasket. M8 x 18-mm earthing bolt for equipotential connection between the door and the body.	Full accessibility is provided from the front and rear. Easy removable and reversible front door, opening to 120°. Locking by two-point locks with 3-mm double-bar insert. Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm for quick installation of cables and cable ducts. Locking by two-point locks with 3-mm double-bar insert. Hinged console cover equipped with a pneumatic opening stay. Opens to 75°. Locking by two-point locks with 3-mm double-bar insert. Easy removable and reversible rear door, opening to 120°. Locking by three-point lock with flat escutcheon, 5-mm double-bar insert. One entry cable-gland plate, with polyurethane gasket. Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth. M8 x 18-mm earthing bolt for equipotential connection between the door and the body.
Material	Welded folded sheet steel	Welded folded sheet steel
Finish	Structured finish, epoxy-polyester powder paint	Structured finish, epoxy-polyester powder paint
Colour	RAL 7035 grey	RAL 7035 grey
Thickness	15/10e mm	15/10e mm
Ingress protection rating	IP55	IP55
Mechanical protection rating	IK10	IK10
Options	It can also be equipped with a mounting plate, see page 466	Plinth options see page 462. It can also be equipped with a mounting plate, see options page 466. Locking system: other inserts or cylinders also available, see page 464. The console can support the installation of a 14" screen with an optional PC support plate, see page 466.

References

Dimensions (mm)			Door number		No. Front doors	No. Rear doors	No. cable gland plates	
Width (B)	Height	Depth	1	2				
600	1000	469	**NSYSD6**	-	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
800	1000	469	**NSYSD8**	-	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	1	1	1	**NSYSDF88**
		1045	-	-	1	1	1	**NSYSDF810**
1000	1000	469	-	**NSYSD10**	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	2	2	1	**NSYSDF108**
		1045	-	-	2	2	1	**NSYSDF1010**
1200	1000	469	-	**NSYSD12**	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	2	2	1	**NSYSDF128**
		1045	-	-	2	2	1	**NSYSDF1210**
1600	1400	845	-	-	2	2	2	**NSYSDF168**
		1045	-	-	2	2	2	**NSYSDF1610**

Human-Machine Interface
Characteristics

SD



SDX



	Compact control desk with rear panel	
	Sheet steel	**Stainless-steel sheet**
	Removable rear panel. It enables the installation of two racks back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear. At the top, these control desks are equipped with cable-entry cut-outs, that allows the installation of one or more modular consoles. Easy removable and reversible door, opening to 120°. Locking by 3-mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 464). Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm. Top cable-entry cut-outs covered by a entire blanking cover. Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth. Cable-gland plate with 2 adjustable parts, with polyurethane gasket. M8 x 18-mm earthing screw for equipotential connection between the door and the body.	
	Welded folded sheet steel	304L stainless-steel sheet
	Structured finish, epoxy-polyester powder paint	Scotch-Brite® brushed finish
	RAL 7035 grey	-
	15/10e mm	15/10e mm
	IP55	IP55
	IK10	IK10
	Modular consoles to be installed on top of compact control desk. See details and combinations page 460. It can also be equipped with a mounting plate, see page 466.	Stainless-steel modular consoles to be installed on top of compact control desk. See details and combinations page 460. It can also be equipped with a mounting plate.

	Door number		Door number	
	1	**2**	**1**	**2**
	-	-	-	-
	-	-	**NSYSDX6**	-
	NSYSD6R	-	-	-
	-	-	-	-
	-	-	**NSYSDX8**	-
	NSYSD8R	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	**NSYSDX10**
	-	**NSYSD10R**	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	**NSYSDX12**
	-	**NSYSD12R**	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

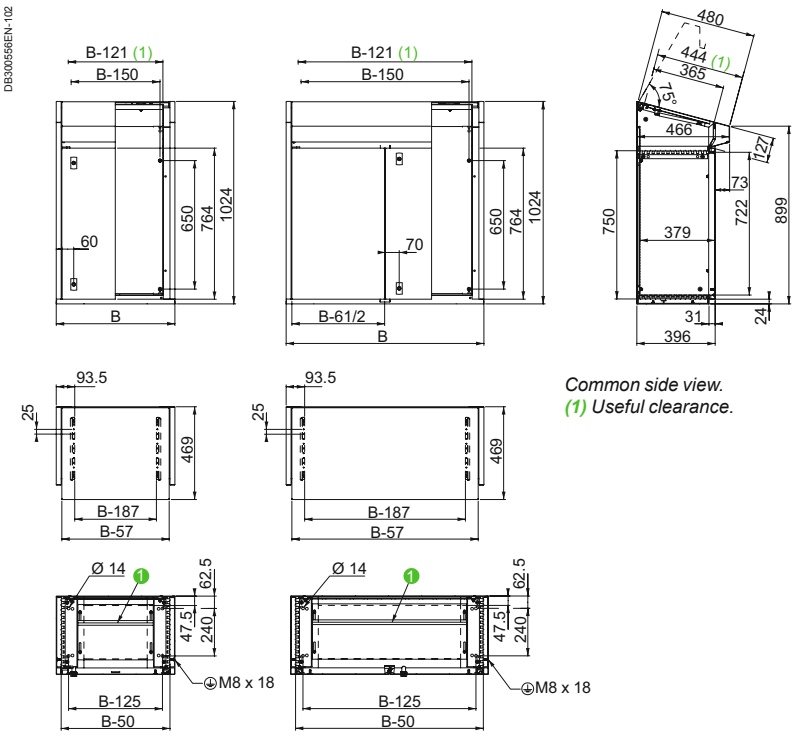
Human-Machine Interface
Dimensions

SD

Compact control desk

1 door

2 doors



Common side view.
(1) Useful clearance.

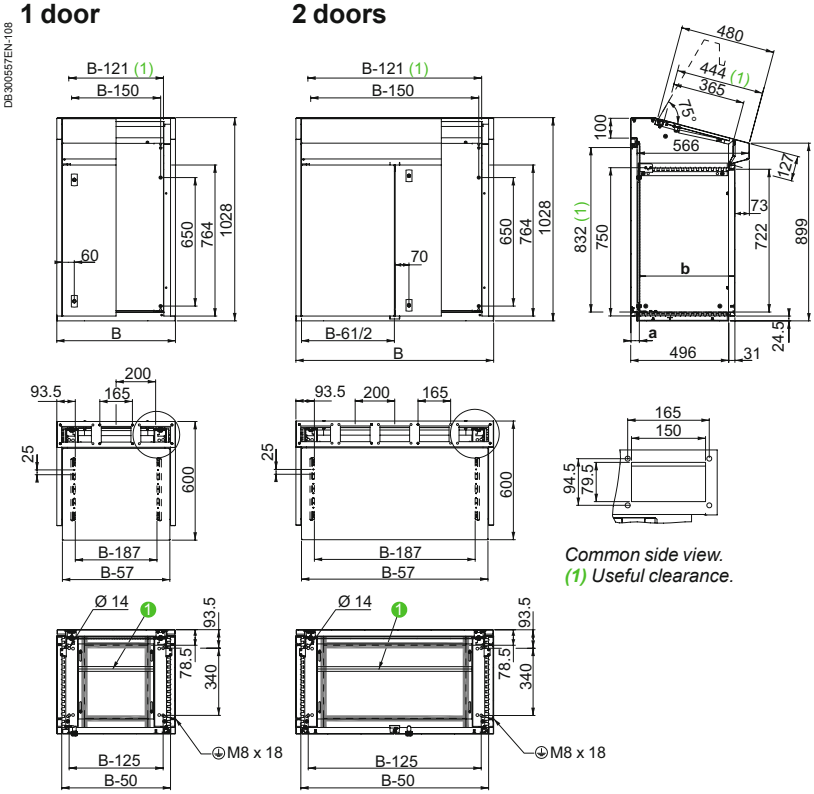
Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

SD

Compact control desks with rear panel

1 door

2 doors



Common side view.
(1) Useful clearance.

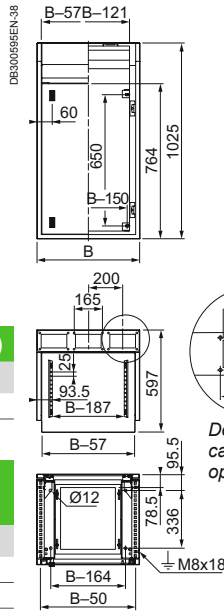
Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

Adjustment of the depth of the mounting plate (mm)		
Depth	**Min.**	**Max.**
a	42	392
b	129	479

Human-Machine Interface
Dimensions

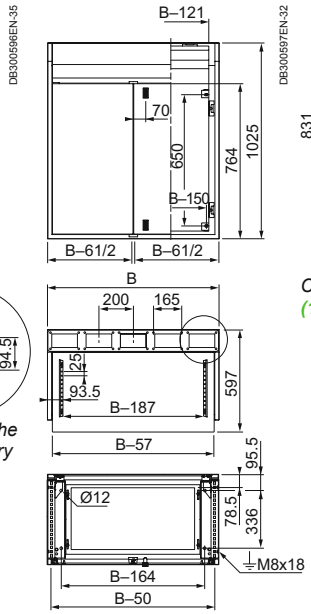
SDX Compact control desks with rear panel

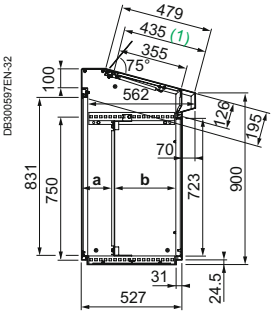
1 door



Detail of the cable-entry openings.

2 doors





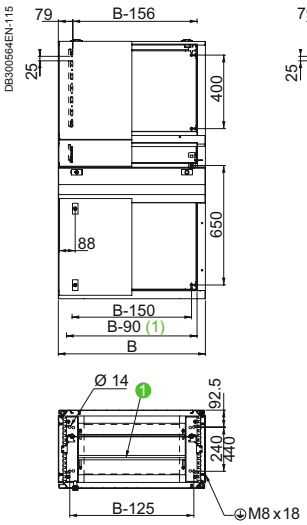
Common side view.
(1) Useful clearance.

Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	370

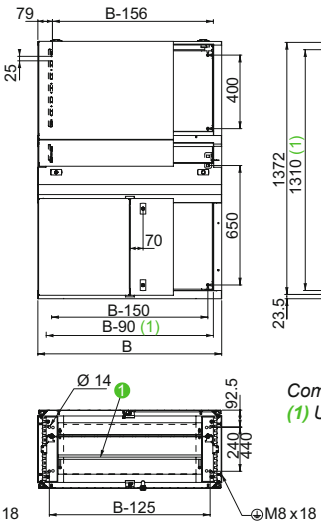
Adjustment of the depth of the mounting plate (mm)		
Depth	**Min.**	**Max.**
a	45	395
b	126	476

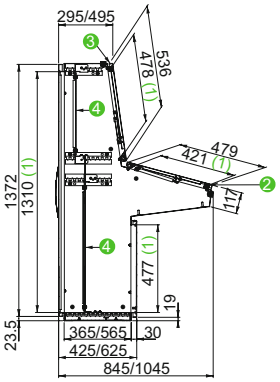
SD Control desk with console

1 door



2 doors





Common side view.
(1) Useful clearance.

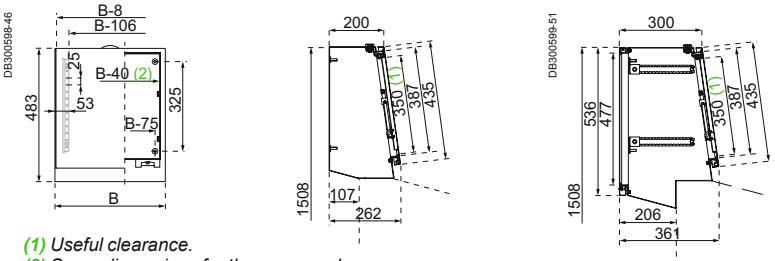
Cable-gland plate clearance dimensions (mm)	
Width	**Maximum opening**
B-280	56

Notes	
1	1 entry cable-gland plate
2	Maximum opening of the hinged desk lid: 75°
3	Maximum opening of the hinged console cover: 75°
4	Optional mounting plate installation, see page 466

SD SDX Modular console

Depth 200 mm

Depth 300 mm

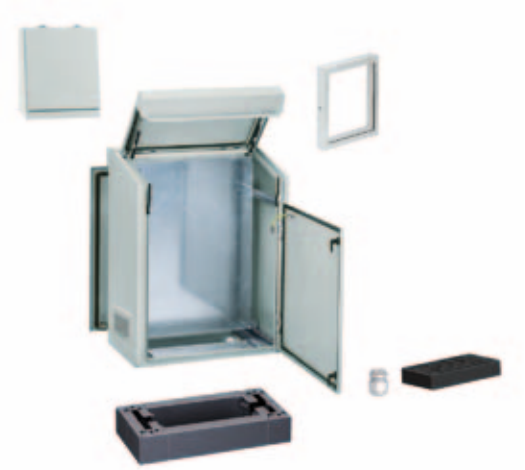


(1) Useful clearance.
(2) Same dimensions for the rear panel.

Human-Machine Interface

Specific accessories overview

PB501814-77



Composition accessories

Modular consoles

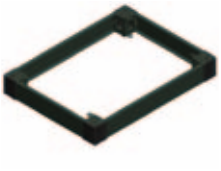
PB501206-30



Page 460

Floor

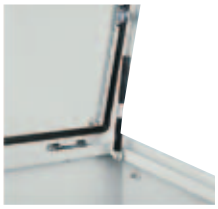
PB500330-33



Page 462

Door

PB501213-35



Page 463

Locking system

PB501216-17



Page 464

Windows

PB500995-28



Page 298

Installation accessories

Mounting acc.

PB501207-33



Page 466

Human-Machine Interface
Common accessories overview

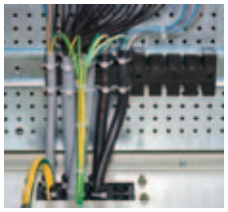
PB502439-55



Cable management

Cable holding

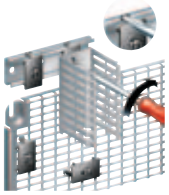
PB500966-40



Page 282

Cable ducting

PB500959-22



Page 285

Thermal management

Heaters

PB502050-29



Page 540

Ventilation

PB501044-26

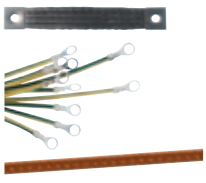


Page 490

Others

Earthing

PB500084-24 PB500217-18 PB500948-88



Page 300

Human-Machine Interface
Accessories

Modular consoles

SD



SDX



Characteristics			Modular consoles			
			Sheet steel		Stainless-steel sheet	
			Hinged modular console cover equipped with a pneumatic opening stay. Opens to 75°. Locking of the hinged modular console cover by two 3-mm double-bar locks (other inserts or barrels also available, to be ordered separately, see page 464). Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.			
Material			Welded folded sheet steel		304L stainless-steel sheet	
Finish			Structured finish, epoxy-polyester powder paint		Scotch-Brite® brushed finish	
Colour			RAL 7035 grey		-	
Thickness			15/10e mm		15/10e mm	
Ingress protection rating			IP55		IP55	
Mechanical protection rating			IK10		IK10	
Options			The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately). Optional galvanised mounting plate.			
References						
Dimensions (mm)			**No. of cable entry cut-outs**			
Width (B)	**Height**	**Depth**	**2**	**3**	**2**	**3**
400	483	200	**NSYSDC42**	-	**NSYSDCX42**	-
		300	**NSYSDC43**	-	**NSYSDCX43**	-
600	483	200	-	**NSYSDC62**	-	**NSYSDCX62**
		300	-	**NSYSDC63**	-	**NSYSDCX63**

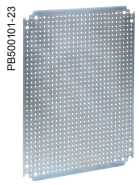
SD

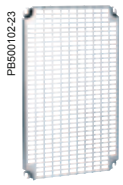


SDX

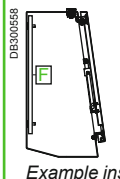




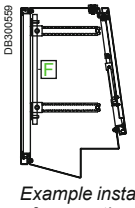




Characteristics			Blanking cover		Mounting plates for modular consoles		
			To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk. In any case, it is necessary to previously remove the top plate delivered with the control desk.		Steel mounting plates can be installed at the back of modular consoles (F). See more information about the mounting plates pages 212.		
Material			Sheet steel	304L stainless-steel	Steel		
Finish			Structured finish, epoxy-polyester powder paint,	-	-		
Colour			RAL 7035 grey	-	-		
Thickness			15/10e mm	15/10e mm	-		
Fixing			Fixing by screws	Fixing by screws	-		
References							
Blanking cover length (mm)							
200			**NSYRP2**	**NSYRPX2**	-	-	-
Modular console width (mm)	**Fixing centre-to-centre distance (mm)**				**Plain mounting plate**	**Microperforated mounting plate**	**Telequick mounting plate**
	Height	**Width**					
400	325	325	-	-	**NSYMM44**	**NSYMF44**	**NSYMR44**
600	625	325	-	-	**NSYMM64**	**NSYMF64**	**NSYMR64**



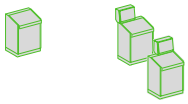
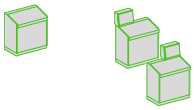
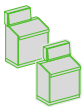
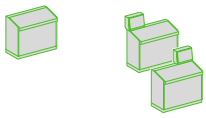
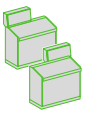
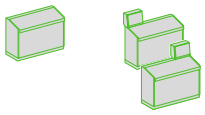
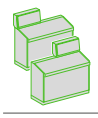
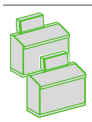
Example installation of a mounting plate in a console depth 200 mm.



Example installation of a mounting plate in a console depth 300 mm.

Human-Machine Interface
Accessories

Modular consoles

Combination examples of modular consoles installation	Compact control desk		Modular console		Blanking cover	
	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX
600						
	NSYSD6R	NSYSDX6	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	NSYRP2	NSYRPX2
	NSYSD6R	NSYSDX6	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	-	-
800						
	NSYSD8R	NSYSDX8	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	2 x NSYRP2	2 x NSYRPX2
	NSYSD8R	NSYSDX8	2 x NSYSDC42 / 2 x NSYSDC43	2 x NSYSDCX42 / 2 x NSYSDCX43	-	-
	NSYSD8R	NSYSDX8	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	NSYRP2	NSYRPX2
1000						
	NSYSD10R	NSYSDX10	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	3 x NSYRP2	3 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	2 x NSYRP2	2 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	2 x NSYRP2	2 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63	NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63	-	-
1200						
	NSYSD12R	NSYSDX12	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	4 x NSYRP2	4 x NSYRPX2
	NSYSD12R	NSYSDX12	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	3 x NSYRP2	3 x NSYRPX2
	NSYSD12R	NSYSDX12	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	3 x NSYRP2	3 x NSYRPX2
	NSYSD12R	NSYSDX12	2 x NSYSDC62 / 2 x NSYSDC63	2 x NSYSDCX62 / 2 x NSYSDCX63	-	-
	NSYSD12R	NSYSDX12	NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63	NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63	NSYRP2	NSYRPX2

SD SDX

Floor

For more information, see page 98.


PB502578-30


PB502589-30


PB502580-17


PB502591-18

Characteristics	Front and rear plinth				Plinth side panels			
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.				They are fixed to the corner of the plinth by 2 fixing screws.			
Material	Folded sheet steel, corner with a thickness of 25/10e mm		304L stainless-steel		Folded sheet steel		304L stainless-steel	
Finish	Painted with epoxy-polyester resin		-		Painted with epoxy-polyester resin		-	
Colour	RAL 7022 grey		-		RAL 7022 grey		-	
Ingress protection rating	IP30		IP30		IP30		IP30	
Mechanical protection rating	IK10		IK10		IK10		IK10	
Supply	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements				■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements			
Control desk references	**Plinths references**							
Compact control desks with fixed rear panel	**100 mm**	**200 mm**	**100 mm**	**200 mm**	**100 mm**	**200 mm**	**100 mm**	**200 mm**
PB501200-14 **NSYSD6**	NSYSPF6100	NSYSPF6200	NSYSPFX6100	NSYSPFX6200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD8	NSYSPF8100	NSYSPF8200	NSYSPFX8100	NSYSPFX8200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD10	NSYSPF10100	NSYSPF10200	NSYSPFX10100	NSYSPFX10200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD12	NSYSPF12100	NSYSPF12200	NSYSPFX12100	NSYSPFX12200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
Compact control desks with removable rear panel Sheet steel								
PB501202-14 **NSYSD6R**	NSYSPF6100	NSYSPF6200	NSYSPFX6100	NSYSPFX6200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD8R	NSYSPF8100	NSYSPF8200	NSYSPFX8100	NSYSPFX8200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD10R	NSYSPF10100	NSYSPF10200	NSYSPFX10100	NSYSPFX10200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD12R	NSYSPF12100	NSYSPF12200	NSYSPFX12100	NSYSPFX12200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
Compact control desks with removable rear panel Stainless-steel								
PB501267-16 **NSYSDX6**	-	-	NSYSPFX6100	NSYSPFX6200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX8	-	-	NSYSPFX8100	NSYSPFX8200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX10	-	-	NSYSPFX10100	NSYSPFX10200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX12	-	-	NSYSPFX12100	NSYSPFX12200	-	-	NSYSPSX5100	NSYSPSX5200
Control desk with console								
PB501208-14 **NSYSDF88**	NSYSPF8100	NSYSPF8200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF108	NSYSPF10100	NSYSPF10200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF128	NSYSPF12100	NSYSPF12200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF168	NSYSPF16100	NSYSPF16200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF810	NSYSPF8100	NSYSPF8200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1010	NSYSPF10100	NSYSPF10200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1210	NSYSPF12100	NSYSPF12200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1610	NSYSPF16100	NSYSPF16200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-

Human-Machine Interface
Accessories

Door

PB501213-42

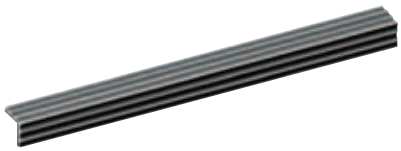


Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.
- **Supply:** delivered with fixings.

Nominal load per stay (N)	Max. load on lid (kg)	Control desk references				Standard supply stay
		With fixed rear panel	With removable rear panel		With console	
			Sheet steel	Stainless-steel		
244	13	NSYSD6	NSYSD6R	NSYSDX6	NSYSDF88	NSYPLS24
		NSYSD8	NSYSD8R	NSYSDX8	NSYSDF810	NSYPLS24
300	11	-	-	-	NSYSDF168	NSYPLS30
		-	-	-	NSYSDF1610	NSYPLS30
	15	NSYSD12	NSYSD12R	NSYSDX12	NSYSDF128	NSYPLS30
		-	-	-	NSYSDF1210	NSYPLS30
	17	NSYSD10	NSYSD10R	NSYSDX10	NSYSDF108	NSYPLS30
		-	-	-	NSYSDF1010	NSYPLS30

PB501214



Document lip

- Retaining bar to be fixed on the front of the inclined control desk lid. Prevents documents and equipment from falling.
- **Material:** PVC, RAL 7011 grey.
- **Fixing:** fixing by adhesive.

Control desk width (mm)	References
600	NSYDL6
800	NSYDL8
1000	NSYDL10
1200	NSYDL12
1600	NSYDL16

Human-Machine Interface
Accessories

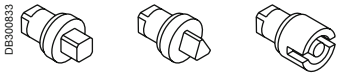
Locking system

PB501215-72



The Control desks are supplied with 3 mm double-bar escutcheon locks as standard.

DB300833



PB501216-18



Characteristics	Shape inserts	Escutcheon with key lock
	Possibility to replace the standard shape insert: ■ 8-mm triangular insert, ■ 8-mm male square insert, ■ 7-mm male square insert.	Insert breakage torque: 15 daN.
Material	-	Polyamide PA 6 material charged with 30 % fibreglass
Colour	-	RAL 7011 grey
Mechanical protection rating	-	IK10
Fire resistance	-	650°C
References		
8-mm triangular insert	**NSYTT8CRN**	-
8-mm male square insert	**NSYTC8CRN**	-
7-mm male square insert	**NSYTC7CRN**	-
405E key	-	**NSYML405SD**
Without insert	-	-

Human-Machine Interface
Accessories

Locking system

PB501217-38



Pivoting handle

	To be installed on the rear door of Control desk with console, replacing the flat escutcheon supplied as standard. Ergonomic locking system with pivoting handle (delivered without insert). Broad range of inserts for covering the greatest variety of needs (shape inserts, DIN cylinders, KABA, ASSA). Changing the opening direction to right / left thanks to the symmetric design of the lock unit (no linkages to be removed). Lock unit supported by 2 screws.
	PA 6 charged with 30 % fibreglass
	RAL 7011 grey
	IK10
	650°C
	-
	-
	-
	-
	NSYSDH

Accessories

PB500614-19



Shape inserts

Shape inserts	References
6-mm square insert	**NSYINS61**
6-mm female square insert	**NSYINS6G1**
7-mm square insert	**NSYINS71**
8-mm square insert	**NSYINS81**
8-mm female square insert	**NSYINS8G1**
8-mm square insert with slot	**NSYINS8H1**
6.5-mm triangular insert	**NSYINT61**
7-mm triangular insert	**NSYINT71**
8-mm triangular insert	**NSYINT81**
9-mm triangular insert	**NSYINT91**
10-mm triangular insert	**NSYINT101**
10-mm keyless hexagonal insert	**NSYINH31**
3-mm double-bar insert	**NSYINDB31**
5-mm double-bar insert	**NSYINDB51**
Daimler Benz insert	**NSYINBENZ1**
Fiat insert	**NSYINFIAT1**
USA keyless slot insert	**NSYINUSA1**
2 x 4 keyless slot insert	**NSYIN241**
Crown insert	**NSYINCW1**

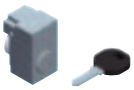
PB501218



Push button

Push button	Reference
Push button	**NSYINPULSD**

PB500616-18

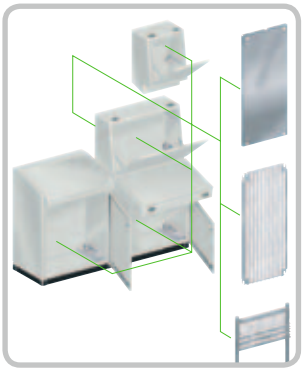


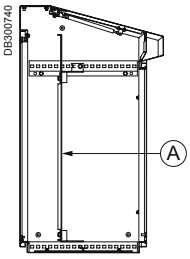
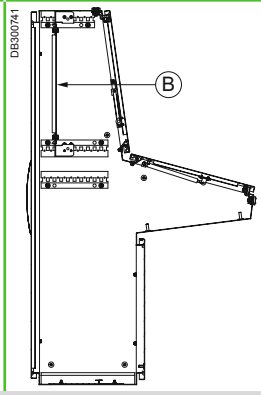
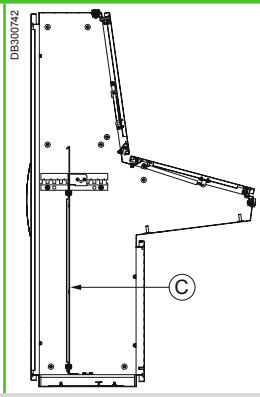
Cylindrical barrels

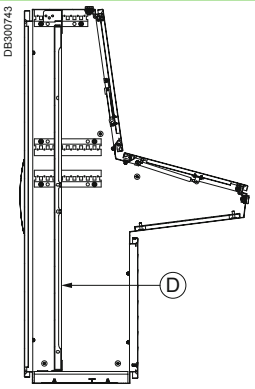
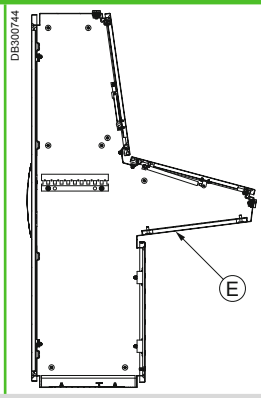
Cylindrical barrels	References
Lock with 405E key	**NSYIN405E1**
Lock with 421E key	**NSYIN421E1**
Lock with 455 key	**NSYIN4551**
Lock with 1242E key	**NSYIN1242E1**
Lock with 1332E key	**NSYIN1332E1**
Lock with 2124E key	**NSYIN2124E1**
Lock with 2131A key	**NSYIN2131A1**
Lock with 2132A key	**NSYIN2132A1**
Lock with 2331A key	**NSYIN2331A1**
Lock with 2433A key	**NSYIN2433A1**
Lock with 2452E key	**NSYIN2452E1**
Lock with 3113A key	**NSYIN3113A1**
Lock with 3122E key	**NSYIN3122E1**
Lock with 3123A key	**NSYIN3123A1**
Lock with 3131A1 key	**NSYIN3131A1** New
Lock with 3133A key	**NSYIN3133A1**
Lock with 3422E key	**NSYIN3422E1**
Lock with 3432E key	**NSYIN3432E1**
Lock with 6101 key	**NSYIN6101** New
Lock with EDF1300 key	**NSYINF1301**
Lock with EDF1400 key	**NSYINF1401**
Michelin 8079 keyless lock	**NSYINICHEL8791**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

Mounting accessories

PB501219-37



	Compact control desks				Control desk with console							
Installation type												
Control desk	Mounting plates (1)											
Width (B) (mm)	Plain		Telequick		Plain		Telequick		Plain		Telequick	
	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References
600	35	NSYPMP8560	34	NSYTMP6760	-	-	-	-	-	-	-	-
800	49	NSYPMP8580	48	NSYTMP6780	31	NSYPMP4580	30	NSYTMP4280	49	NSYPMP8580	48	NSYTMP6780
1000	63	NSYPMP85100	61	NSYTMP67100	40	NSYPMP45100	39	NSYTMP42100	63	NSYPMP85100	61	NSYTMP67100
1200	77	NSYPMP85120	75	NSYTMP67120	77	NSYPMP45120	39	NSYTMP42120	77	NSYPMP85120	75	NSYTMP67120
1600	-	-	-	-	67	NSYPMP45160	-	-	105	NSYPMP85160	-	-

	Control desk with console							
Installation type								
Control desk	Mounting plates							
Width (B) (mm)	Plain (1)		Telequick (2)		Plain		Telequick	
	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References	Surface (dm²)	References
600	-	-	-	-	-	-	-	-
800	90	NSYMP148	84	2 x NSYSTMP6080	28	NSYSPMP4080	-	-
1000	116	NSYMP1410	108	2 x NSYSTMP60100	36	NSYSPMP40100	-	-
1200	142	NSYMP1412	132	2 x NSYSTMP60120	44	NSYSPMP40120	-	-
1600	-	-	-	-	60	NSYSPMP40160	-	-

(1) For this installation, order a set of 4 adjustment rails and fixing brackets (see page 467).
(2) For this installation, order a set of 2 uprights ref. ***NSYTVR14*** *and set of 4 adjustment rails and 4 fixing brackets.*

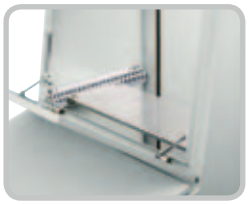
Human-Machine Interface
Accessories

Mounting accessories


PB501815-24


PB501808-35


PB500483-24


PB501210-32

Characteristics	Fixing brackets	Adjustment rails and fixing brackets	Technical uprights	PC screen support
	Set of 4 fixing brackets. Depth adjustment on 25 mm pitch. Included as standard with desk (all versions). To be ordered separately when required for installation of two back to back mounting plates in control desks with rear access.	Set of 4 rails and 4 fixing brackets. To install a plain mounting plate or a Telequick mounting plate, either at the top or across the height of the monobloc control desk with console. For positioning 2 plates (back to back), order fixing brackets ref. **NSYMPBSD**.	Set of 2 equipment uprights. Support for fixing Telequick mounting plates and rails.	For a control desk with monobloc console with a depth of 600 mm. This support is a galvanised mounting plate, in horizontal position, fixed to the adjustment rails of the console.
Material	Galvanised steel	-	Zinc-coated	-
Thickness	40/10^{e} mm	-	20/10^{e} mm	-
Maximum load	250 kg	-	-	50 kg/m^{2}
Supply	-	-	-	Delivered with fixings
References				
For desk width (mm)				
600	**NSYMPBSD**	-	-	-
800	**NSYMPBSD**	-	-	**NSYPCS8**
1000	**NSYMPBSD**	-	-	**NSYPCS10**
1200	**NSYMPBSD**	-	-	**NSYPCS12**
1600	**NSYMPBSD**	-	-	**NSYPCS16**
For control desks with console Depth (mm)				
400	-	**NSYMPB4SD**	-	-
600	-	**NSYMPB6SD**	-	-
For control desk height (mm) / **Centre-to-centre distance (mm)**				
1000 / 650	-	-	**NSYTVR8**	-
1400 / 1250	-	-	**NSYTVR14**	-

Human-Machine Interface
Introduction

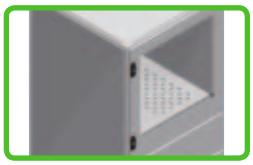
> The **Spacial SF PC rack** is designed to protect and control computer equipment in an industrial environments.

PB500501-54



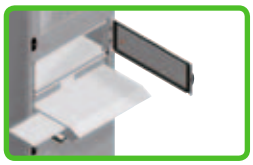
Steel PC racks

PB500694-28



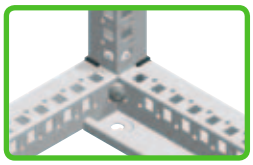
Convenience
- Anti-glare glazed door designed for viewing until 25,5" screens.
- Cable entry made easier by a cable-land plate in 2 pieces.

PB500685-28



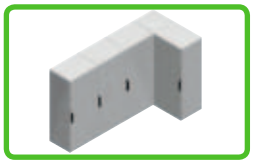
Ergonomics
- Access to the various functions and working heights, guaranteeing optimum comfort.
- Partial doors delimit the access to each function with a 3 mm double-bar lock.
- Built-in screen and CPU support.
- Built-in keyboard and mouse support.

PB500490-35



Robust
- Spacial SF structure formed from a single 1.5 mm galvanised-steel section, with a high moment of inertia.
- Vertical uprights joined with top and bottom frames, screwed together with connections of sintered steel.
- Panels built into the structure.

PB500495-21



Simple
The Spacial SF design allows enclosures to be coupled in any direction, adapting to all installation surfaces.

PB500667-35



Detail of 5 mm DB lock on rear door.

Locking system
Locking system with flat escutcheon, made from polyamide 6 with 30 % fibreglass, RAL 9005 black, with 5 mm double-bar insert for the plain rear door, and small flat escutcheon with 3 mm double-bar insert for the partial front doors.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

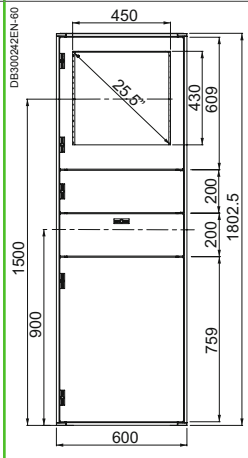
Machining

See page 480 for details or consult our web site www.schneider-electric.com

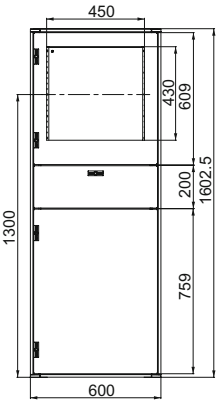
Human-Machine Interface
Characteristics



Characteristics			Spacial SF PC rack	
			■ Partial door for PC screen, with Securit® anti-glare glass. ■ Plain partial door for CPU (enclosures with height of 1800 mm). ■ Hinged plain door for keyboard. ■ Plain partial door for optional installation of A4 printer support. ■ Partial front doors opening to the right. ■ Plain rear door, reversible opening direction (right or left). ■ Roof and side panels fixed from the inside. ■ Cable-gland plate with 1 entry.	
Finish			Structured finish, epoxy-polyester powder paint	
Colour			RAL 7035 grey	
Ingress protection rating			IP55, or IP40 with hinged keyboard	
Mechanical protection rating			IK10	
Certifications			UL*, CUL	
Height (mm)	**Width (mm)**	**Depth (mm)**	**No. of compartments**	**References**
1600	600	600	3	**NSYSF16660PC**
		800	3	**NSYSF16680PC**
1800	600	600	4	**NSYSF18660PC**
		800	4	**NSYSF18680PC**



PC rack with a height of 1800 mm.



PC rack with a height of 1600 mm.

**1, 12, 12 K.*

Plinth









Characteristics	Front plinth		Plinth side panels	
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.		They are fixed to the corner of the plinth by 2 fixing screws.	
Material	Folded sheet steel, corner with a thickness of 25/10e mm		Folded sheet steel	
Finish	Painted with epoxy-polyester resin		Painted with epoxy-polyester resin	
Colour	RAL 7022 grey		RAL 7022 grey	
Ingress protection rating	IP30		IP30	
Mechanical protection rating	IK10		IK10	
Installation	-		-	
Supply	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements		■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements	
References				
Width (mm) / **Depth (mm)**	**100 mm**	**200 mm**	**100 mm**	**200 mm**
600 / 600	**NSYSPF6100**	**NSYSPF6200**	**NSYSPS6100**	**NSYSPS6200**
600 / 800			**NSYSPS8100**	**NSYSPS8200**

Locking system





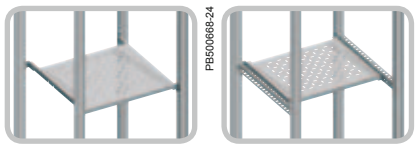
Detail of 3 mm DB lock on partial door.

Characteristics	Locks for partial doors			
	Locks to replace the 3 mm double-bar lock supplied with the partial doors. Models: ■ Transformation of lock with shape inserts, triangular 6.5 mm and square 6 mm. ■ Lock with 2233X key for partial doors. ■ Lock with 2233X key, exclusive for hinged keyboard door.			
Supply	■ Lock with shape inserts, triangular 6.5 mm and square 6 mm: metal body, shape insert and safety washer. ■ Lock with 2233X key for partial doors: metal body, insert, bolt, safety washer and key. ■ Lock with 2233X key, exclusive for hinged keyboard door: metal body, insert, special bolt, safety washer and key.			
References	**With 6.5 mm triangular insert for partial and hinged door**	**With 6 mm square insert for partial and hinged door**	**With 2233X key for partial door**	**With 2233X key for hinged keyboard door**
	NSYMLT6	**NSYMLS6**	**NSYML23**	**NSYMLCD23**

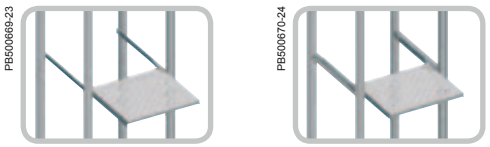
Human-Machine Interface
Accessories

Trays

PB500523-24 PB500668-24



PB500669-23 PB500670-24



	Fixed Trays				Telescopic Trays					
	■ Optional installation of a supplement fixed or telescopic tray directly on structure or on cross rails. ■ Acceptable load: 150 kg for fixed trays and 50 kg for telescopic rails, both evenly distributed. ■ See more details and other options on Mounting: trays, page 235.									
	-				-					
	-				-					
	-				-					
	-				-					
	-				-					
	On structure	On cross rails			On structure		On cross rails			
	-	-			-		-			
	Tray	**Tray**	**Universal cross rail 40 mm (1 row)**	**Quick cross rail 40 mm (1 row)**	**Tray**	**Telescopic rails**	**Tray**	**Telescopic rails**	**Universal cross rail 40 mm (1 row)**	**Quick cross rail 40 mm (1 row)**
	NSYFXT6060	**NSYFXT6060**	**NSYSUCR4060**	**NSYSQCR4060**	**NSYFXT6060**	**NSYTTG60**	**NSYFXT6060**	**NSYTTG60**	**NSYSUCR4060**	**NSYSQCR4060**
	-	**NSYFXT6060**	**NSYSUCR4080**	**NSYSQCR4080**	-	-	**NSYFXT6060**	**NSYTTG60**	**NSYSUCR4080**	**NSYSQCR4080**

Other accessories

PB500672-33



Characteristics	Handle for telescopic trays
	Handle designed for easy extraction of the sliding trays.
Material	Polyamide 6 (black)
Supply	2 units and fixing elements
Reference	
	NSY1TH

Human-Machine Interface
Introduction

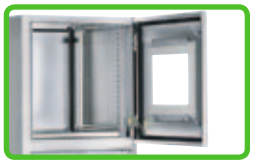
> The **stainless-steel monobloc PC racks** have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.

PB501223



Stainless-steel monobloc PC racks

PB501223-69



Convenience
- Anti-glare glazed door designed for viewing 14" and 17" screens by removing part of the silkscreen printing.
- Cable entry made easier by a cable-gland plate (at the rear) in 2 pieces.

PB501223-108



Sealing
IP55, even with the keyboard drawer open, thanks to the pivoting Plexiglas shutter.

PB501223



Optional accessories
Shelf mounted on telescopic rails.

PB501266-32



Ergonomic
- Partial doors delimit the access to each function with a 3-mm double-bar lock.
- Access to the various functions and working heights, guaranteeing optimum comfort.
- Built-in screen and CPU support.
- Built-in mouse support.

PB501223-107



Hygiene
- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures, ref. **NSYPHX200**.

More information on page 137 and 294.

PB501233-32



Resistance to corrosion
High resistance to corrosion. 304L and 316L stainless-steels provide the best solutions for applications in extremely demanding environments.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

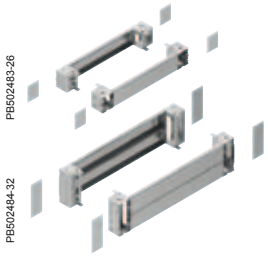
Painting

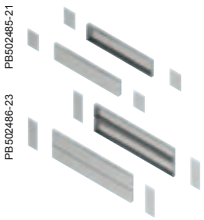
Machining

See page 480 for details or consult our web site www.schneider-electric.com

Human-Machine Interface
Characteristics, accessories

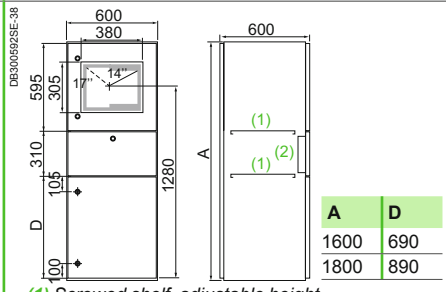






Characteristics	304L stainless-steel PC racks	Front plinth	Plinth side panels
	Composition ■ Top and bottom partial doors on the front side. ■ Pivoting panel for the keyboard. ■ Plain rear door. **Monitor-screen compartment** ■ The anti-glare glazed door is designed for viewing screens: □ 14" as standard, □ 17" by removing a part of the silkscreen printing. ■ The height of the monitor support can be adjusted. ■ The monitor shelf can withstand a maximum weight of 50 kg. **CPU / keyboard compartment** ■ The keyboard fixed to the inside becomes operational by tilting the central panel. ■ The CPU is placed on a height-adjustable shelf, visible and accessible through a pivoting, transparent shutter. **Optional accessories** ■ Hygienic feet H 200 mm: **NSYPHX200**. ■ Shelf installed on a sliding rail, with adjustable height. ■ Telescopic tray: **NSYTTG60**.	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.
Material	Monobloc structure in 304L stainless-steel sheet, micro-beaded finish. Can be made in 316L stainless-steel on request	304L stainless-steel	304L stainless-steel
Ingress protection rating	IP55, even with the keyboard drawer open	IP30	IP30
Mechanical protection rating	IK10	IK10	IK10
Supply	-	■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements	■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements

Height (mm) (A)	Width (mm) (B)	Depth (mm) (C)	References	100 mm	200 mm	100 mm	200 mm
1600	600	600	**NSYSMX16660PC**	**NSYSPFX6100**	**NSYSPFX6200**	**NSYSPSX6100**	2 x **NSYSPSX6100**
1800	600	600	**NSYSMX18660PC**	**NSYSPFX6100**	**NSYSPFX6200**	**NSYSPSX6100**	2 x **NSYSPSX6100**



A	D
1600	690
1800	890

(1) Screwed shelf, adjustable height.
(2) Sealed case for keyboard.

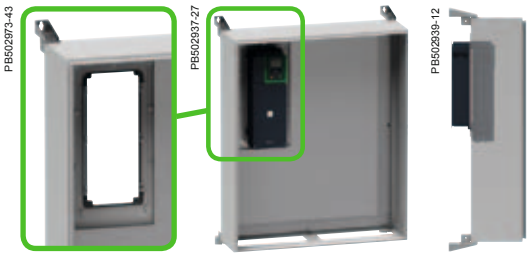
Variable speed drive flush-mounting kits
Introduction

New

> The variable speed drive flush-mounting kits have been designed to isolate the power part, which is an important source of heat.
They are mounted in the Spacial range of steel enclosures (floor-standing and wall-mounting enclosures) and have been approved for Altivar Process variable speed drives in the ATV630 and ATV930 ranges (power range: 0.75 to 45 kW at 200/240 V, 0.75 to 90 kW at 380/480 V).

> The kits are available in five sizes and offer two methods of mounting variable speed drives:
- slide-rail mounting for sizes 1, 2 and 3
- bracket mounting for sizes 4 and 5.

> The kits can be installed:
- at the back of the enclosure.
  This installation provides full thermal insulation



- inside the enclosure on a mounting plate.
  This installation may require the addition of a thermal control.





Tightness
IP55 to IEC 60529 with polyurethane seal provided.



Ease of installation
Set of slide-rails allowing the variable speed drive to be mounted quickly and efficiently.



Strength
The rigidity of the kit allows it to be installed on Spacial S3D, SF and SM enclosures.

Earth continuity
Earth continuity is ensured by tightening the M6 nuts associated with pin washers.



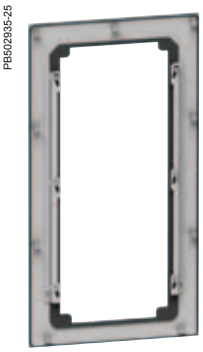
Maintenance of the variable speed drive fan (kit sizes 4 and 5)
Easy front-panel maintenance for fan servicing.

Configured offer

Services
Possibility of cut-outs (enclosure and frame) by Schneider Electric: no risk of corrosion and cuts (cut-out made before painting).

Variable speed drive flush-mounting kits
Characteristics

New



Sizes 1, 2 and 3.



Sizes 4 and 5.

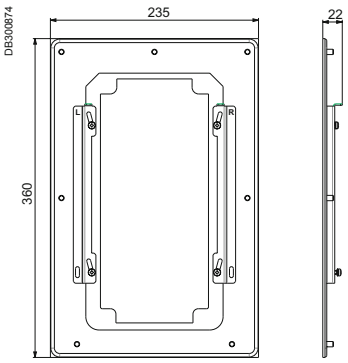
Characteristics	Mounting kits
	Variable speed drive installation kits allowing the hot part to be isolated.
Material	Steel
Finish	■ Painted with epoxy-polyester resin ■ Salt spray resistance: 336 h
Colour	RAL 7035 grey
Ingress protection rating	IP55
Mechanical protection rating	-
Certifications	IEC 62208, UL 508A under development
Supply	**Sizes 1, 2 and 3:** ■ Painted steel plate with cut-out fitted with two slide-rails + adhesive seal + 7 to 9 M6 studs for kit mounting ■ Protection seal profile supplied for frame cut-out ■ Enclosure drilling template **Sizes 4 and 5:** ■ Painted steel plates with cut-out fitted with painted mounting brackets + screws and nuts for fixing the brackets and the kit ■ Protection seal supplied for frame cut-out ■ Enclosure drilling template ■ Fan support for ease of maintenance ■ Protective cover

Dimensions (mm)			Sizes	Compatibilities						References
H	L	P		Enclosures	Variable speed drives ATV340 380/480 V	ATV630 200/240 V	ATV630 380/480 V	ATV930 200/240 V	ATV930 380/480 V	Kits
360	235	22	1	S3D, SF, SM	-	ATV630U07M3 ATV630U15M3 ATV630U22M3 ATV630U30M3 ATV630U40M3	ATV630U07N4 ATV630U15N4 ATV630U22N4 ATV630U30N4 ATV630U40N4 ATV630U55N4	ATV930U07M3 ATV930U15M3 ATV930U22M3 ATV930U30M3 ATV930U40M3	ATV930U07N4 ATV930U15N4 ATV930U22N4 ATV930U30N4 ATV930U40N4 ATV930U55N4	NSYPTDS1
420	265	22	2	S3D, SF, SM	-	ATV630U55M3	ATV630U75N4 ATV630D11N4	ATV930U55M3	ATV930U75N4 ATV930D11N4	NSYPTDS2
555	295	22	3	S3D, SF, SM	-	ATV630U75M3 ATV630D11M3	ATV630D15N4 ATV630D18N4 ATV630D22N4	ATV930U75M3 ATV930D11M3	ATV930D15N4 ATV930D18N4 ATV930D22N4	NSYPTDS3
800	385	151,5	4	SF, SM	ATV340D30N4E ATV340D37N4E	ATV630D15M3 ATV630D18M3 ATV630D22M3	ATV630D30N4 ATV630D37N4 ATV630D45N4	ATV930D15M3 ATV930D18M3 ATV930D22M3	ATV930D30N4 ATV930D37N4 ATV930D45N4	NSYPTDS4
975	427	205,5	5	SF, SM	ATV340D45N4E ATV340D55N4E ATV340D75N4E	ATV630D30M3 ATV630D37M3 ATV630D45M3	ATV630D55N4 ATV630D75N4 ATV630D90N4	ATV930D30M3 ATV930D37M3 ATV930D45M3	ATV930D55N4 ATV930D75N4 ATV930D90N4	NSYPTDS5

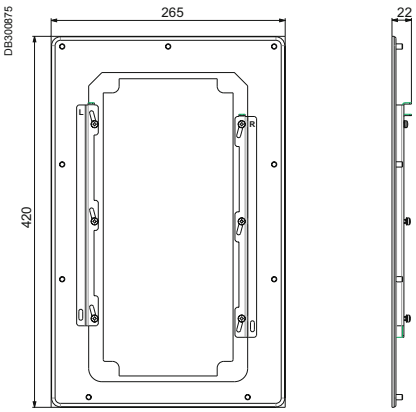
Variable speed drive flush-mounting kits
Dimensions

New

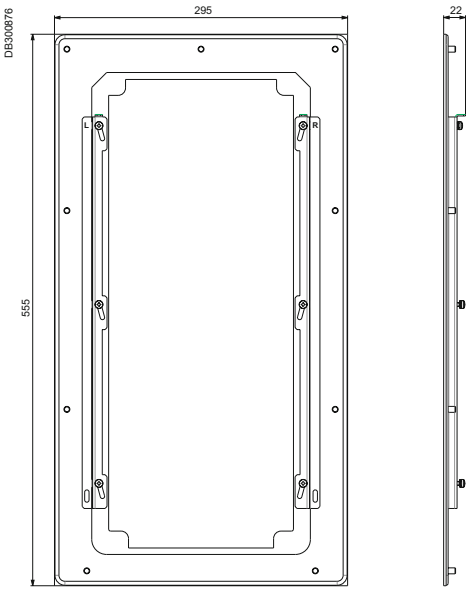
NSYPTDS1



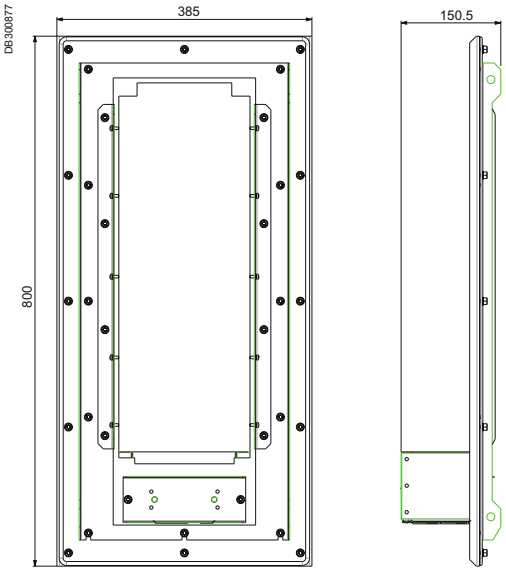
NSYPTDS2



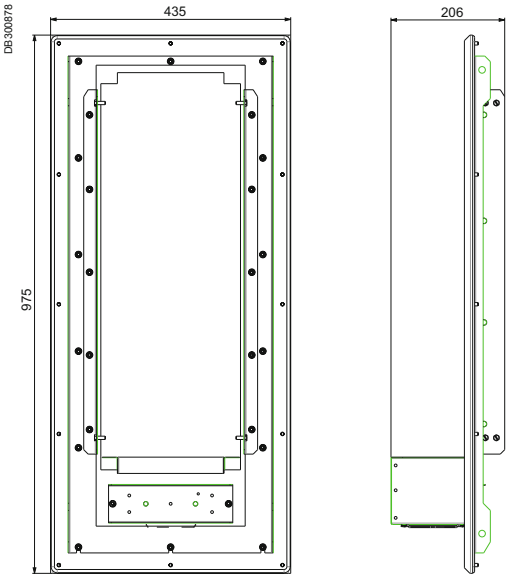
NSYPTDS3



NSYPTDS4



NSYPTDS5

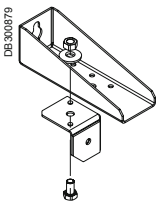


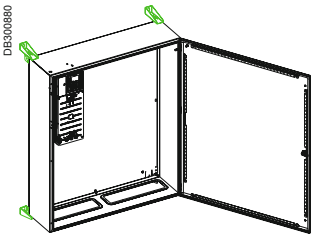
Variable speed drive flush-mounting kits
Mounting accessory

New



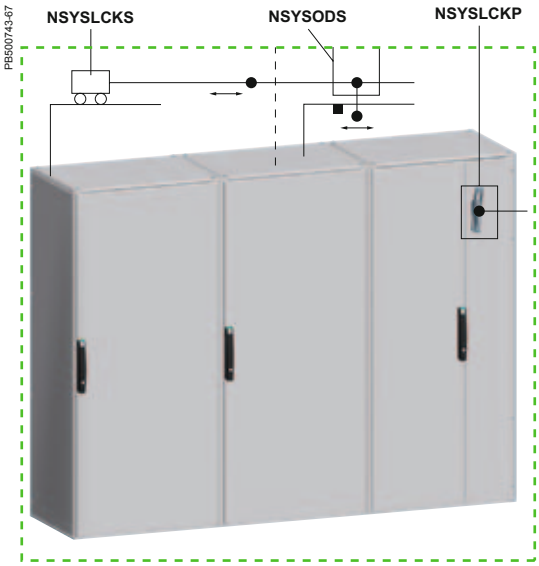
Characteristics		Wall-mounting enclosure fixing lug	
Maximum load		105 kg	
Material		Painted steel RAL 7035	
Supply		Set of 4 lugs and brackets + fasteners	
Wall-mounting enclosure Dimensions (mm)		**References**	
Height	**Width**	**Variable speed drive flush-mounting kits**	**Fixing lug**
≥ 400	≥ 300	**NSYPTDS1**	**NSYAEFPFPTD**
≥ 500	≥ 300	**NSYPTDS2**	
≥ 600	≥ 400	**NSYPTDS3**	





Automobile application
Introduction

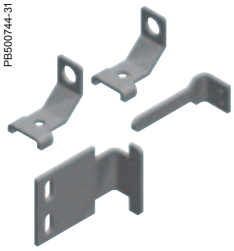
> The door of the "incoming" enclosure is interlocked by the control of the main switch or circuit breaker. A built-in interlocking system with runner rods prevents the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "O" position and the main door is open. Manual activation of the rods unlocks the other doors and allows access.
> Designed to be associated with certain circuit breakers or switches:
– Square D (9422 A1).
– Schneider Electric.
> The system is limited for configurations up to 4 columns.



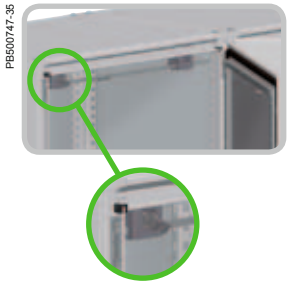


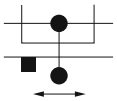
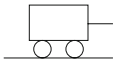
Secure
The built-in secure interlocking system for the door (on demand) of the "incoming"/"outgoing" enclosures allows Spacial SF enclosures to be adapted to the requirements of the American car industry.

Automobile application
Characteristics


PB500744-31


PB500746-43


PB500747-35

Characteristics	Interlocking for main door	Activation for secondary doors	Interlocking for secondary doors	
	■ System for unlocking the main door adapted to the switches: □ Allen Bradley (1494 VH11). □ Square D (9422 A1). □ Siemens (FH0H). □ Schneider Electric. ■ Unlocks the main door when the switch is in the open position "O". ■ The main door interlocking system requires the ordering of both references: □ ❶ Activation for secondary doors. □ ❷ Interlocking for secondary doors.	System installed in the main enclosure. Activated by manual operation, preventing the opening of the secondary enclosures connected to one another by runner rods. It has a secure function which consists of a part that forces the system into the position in which the secondary enclosures are locked in order to lock the main door.	System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.	
Material	Steel	■ Mechanism: zinc-coated steel ■ Activation handle: black plastic	Steel	
Finish	Zinc-coated	-	Zinc-coated	
Fixing	-	-	Fixing to the structure of the enclosures by screws	
Supply	2 brackets for fixing the configured panel, interlocking elements, switch and fixings. Configured panel and handle not included.	Elements for activating the main door and fixings. For the complete function, both activation ❶ and interlocking systems ❷ need to be ordered.	Elements for interlocking the secondary doors and fixings. For the complete function, both activation ❶ and interlocking systems ❷ need to be ordered.	
References			**Width (mm)**	**References**
	NSYSLCKP	**NSYSODS**	600	**NSYSLCKS6**
			800	**NSYSLCKS8**
			1000	**NSYSLCKS10**
				


PB500745-22

The fixed panel in this example must be ordered through our customised service.

The customised solutions
Configured offer

Introduction

Configured



Standard enclosure
+
Standard accessories
+
Services
=
Configured solution

The configured offer is a standard offer enriched by **4 services**

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development.
Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges.
The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Assemble to order

- Change the cladding composition (panels, doors…)
- Merge and assemble several enclosures (only for Spacial SF and Thalassa PLA)

⊕ Enclosure composition stick 100 % to customer needs
⊕ No need to have qualified personnel to merge enclosures

Machining

- Make square and circle cut-outs **before** painting the enclosure (body, cable gland plate, sides) and mounting plates

⊕ Ensures safety and the best protection against rust
⊕ The enclosure is ready to be equipped

Painting

- Change the colour of the complete enclosure (choice of 36 colours)
- Modify the coating of the raw material (ex.: zinc, etc.)

⊕ Industrial painting ensures the best protection
⊕ Totally customized

Mounting of standard accessories

- Pre-installation of accessories inside or out-side of the enclosure (ex.: mounting plate, plinth, canopy, etc.)

⊕ Enclosure ready to be equipped

Minimum order: *1 to 5, depends on type of enclosure.*
Manufacturing time: *3 to 10 days, depends on offer type.*
Delivery time: *varies with destination, please consult us for more information.*

Spacial.conf configuration tool

Spacial.conf is the configuration tool to be used to place your order. It gives you several benefits:

Consistency & error free

- One configurator for 14 countries & all configurable offers
- Compatibility between enclosure & accessories

Time saving & flexibility

- Users can indicate machining requests directly on our DXF drawing
- Decreasing price (depends on quantity)
- Manufacturing time adapted to each offer

Autonomy & facility

- Availability of both on-line & off-line versions
- Illustrated products help you in your choice
- FAQ information for faster understanding

Information back-up

- All data are provided to registered users (quotation, technical datasheet, etc.)
- Reusable smart code

Your order in **5 steps** with Spacial.conf:

1 - Select country & language

- 14 countries
- 4 languages

PB502738-62



2 - Select enclosure

- Select product range
- Select material
- Select enclosure type

3 - Select accessories

- Composition accessories
- Mounting accessories
- Thermal accessories

4 - Select services

- Mounting
- Machining
- Painting
- Assembly

5 - Validation & send offer

- Order summary
- Send order to get quotation confirmation from local sales representative

Have a smartphone or a tablet? Scan this >

DB300836-15

Introduction

Specific


PB502734-111


42-22779605-83

20 experts specialized on different materials and different products

The **specific offer** allows you to have a tailor-made product

> Special dimensions, special needs for thermal system, special components adaptation, etc. All possibilities are open.

> You can choose to modify any of our standard products (boxes or enclosures, wall-mounting or floor-standing) or start from a newly designed solution.

> Co-engineer your solution with our design and engineering team (20 experts entirely dedicated to your specific needs).

Examples of Specific solution


PB502735-45

- Special dimension
- Cut-outs on the body and the doors


PB502736-48

- Cable-entry & door adaptation
- Special door shape

What to take into account

This page will help you define your needs for enclosure and streamline your design process. You will then need to contact your sales representative.

Step 1

Environment in which you'll install the enclosure(s)

> Airborne debris; temperature variations; UV rays?
> Indoor or outdoor use?
> In wash down environment?
> In high traffic environment?

Step 2

Application(s) needs of your enclosure(s)

> Access control; building automation; motor & motion control?
> Need to protect against electromagnetic disturbances?
> Use in potentially explosive atmospheres?

Step 3

Enclosure(s) description

> Type of enclosure's installation?
> Total weight of equipments in the enclosure?
> Design: color / coating / finish / dimension?
> Body components' adaptations: cable entry / mounting plate?
> Thermal management adaptations?
> Other accessories adaptations?
> Additional information: labeling / packaging / logistic?

Step 4

Business profile

> Total quantity of enclosures needed and quantity per batch?
> Frequency of your order: single order / repeat order?
> Delivery time and method demand?
> Stock needs?
> Other comments?

Thermal management system

Thermal management system
Contents

ClimaSys **486**

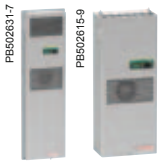
Overview 486



ClimaSys CV **490**
Ventilation systems



New **508**
ClimaSys CE
Exchangers



New **521**
ClimaSys CU
Cooling Units



ClimaSys CRS **538**
Ultra thin resistance heaters



ClimaSys CR **540**
Resistance Heaters



New **545**
ClimaSys CC
Thermal Control

Method to determine a thermal management solution **548**

Thermal management system
Presentation

PB503034



Thermal problems in enclosures

Evolution of the electrical switchboard

An electrical switchboard is an assembly formed of the following components:
- The enclosure;
- Switchgear and controlgear;
- Electrical conductors; and
- Miscellaneous functions (indications, controls, information processing).

It has evolved in three directions:
- Enclosures increasingly made of insulating materials;
- Switchgear and controlgear incorporating more and more electronics which concentrates a growing number of functions in an increasingly small volume;
- An increasingly high filling rate.

Industrial safety studies, a concept which covers:
- The safety of personnel and equipment;
- The availability of electric power;

show that this is one of the critical points of all industrial and service-sector activities. Its operation must therefore be perfectly under control; and this control must concern not only the operation of its components but also their operating conditions in a given environment.

Temperature and humidity in the enclosure

Analysis of the malfunctions and stoppages of an electrical installation shows that they are mostly of thermal origin: temperature too high or too low inside the enclosure.

The rise in the average temperature, which may exceed the limits tolerated by the equipment, can be explained by the changes in electrical switchboards:
- Use of insulating materials for the enclosure, which limits heat removal;
- -Widespread adoption of electronics and a higher filling rate increase the temperature.

This overheating may concern only certain areas: hot spots.

The excessively low temperature is due to installation of the electrical switchboard in a very cold environment. It can cause the formation of condensation, a phenomenon which is harmful for the equipment.

Consequences

The presence of humidity or an excessively high temperature inside the enclosure can cause numerous malfunctions:
- Nuisance tripping of protective devices;
- Fire inside the enclosure;
- Burns for the users;
- Premature equipment ageing;

The consequence of these malfunctions is an increase in the installation's operating costs:
- Maintenance costs,
- Costs entailed by stoppage of the installation.

Thermal management system
Presentation

Solution: thermal management

Objective

The thermal management solution adopted shall:
- Maintain the temperature and the humidity level inside the enclosure at values corresponding to normal operation of the equipment.
- Establish a uniform temperature to prevent hot spots.

Choice of solution

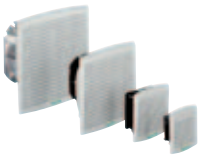
The products constituting the thermal management solution are chosen by producing the thermal balance of the installation. This comprises 2 parts:
- Thermal balance inside the enclosure;
- Evaluation of the climatic conditions (temperature, humidity level) or environmental conditions (pollution) of the place in which the electrical switchboard is located.

The Schneider Electric solutions

With the ClimaSys range Schneider Electric proposes a comprehensive offer meeting all needs:
- Cooling
- Heating
- Regulating
- Homogenizing

Schneider Electric also proposes a thermal design software program, ProClima, which produces the thermal balance and proposes one or more thermal management solutions.

Cooling



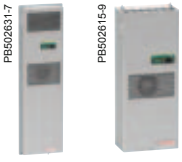
> Forced ventilation systems



> Air-air exchangers

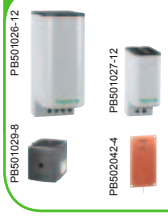


> Air-water exchangers



> Cooling units

Heating



> Resistance heaters

Controlling



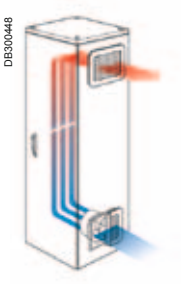
> Thermal control accessories

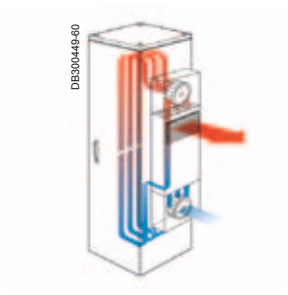
Thermal software

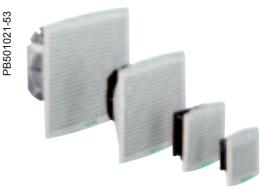


Thermal management system
Solutions overview



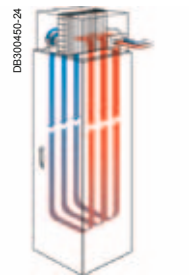


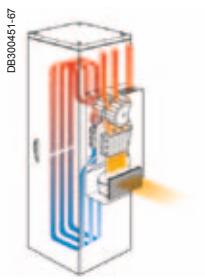


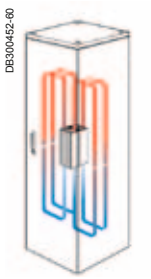
	Homogenize	Cool		
Solution	**Stirring**	**Natural ventilation**	**Forced ventilation**	**Air-air exchanger**
Description	Stirring fan inside the enclosure.	Air circulation achieved by installing grids (side or roof-mounted) with or without filter, or by elevating the roof.	A fan (with or without filter) sucks fresh air from outside to inside the enclosure, thereby creating a slight overpressure which causes removal of the hot air through an outlet grid. The air circulation homogenizes the temperature and the overpressure prevents dust from entering. Side or roof mounting. Can be combined with a thermostat.	Cooling system provided with an aluminum exchange coil to separate the internal and external air circuits, two centrifugal fans to blow in the air circuits, and a thermostat to regulate the temperature in the enclosure. Side or roof mounting.
Use	Prevent hot spots.	Low power to be dissipated. Dusty environment.	High power to be dissipated. Dusty and non- hazardous environment. Prevent hot spots.	Medium power to be dissipated. Corrosive environment (food processing industry). Relatively cold environment (about 25°C).
Temperature conditions *	**None**	**Td > Ta + 5°C**	**Td > Ta + 5°C** **3°C < Ta ≤ 35°C**	**Td > Ta + 5°C**
Independent internal and external air circuits?	**No**	**No**	**No**	**Yes**
Advantages	■ Uniform temperature inside the enclosure.	■ Very economical solution ■ No maintenance ■ Easy, fast installation.	■ Economical solution ■ Easy maintenance ■ Easy, fast installation ■ Uniform temperature inside the enclosure ■ Guaranteed level of protection: IP55 (IP54 for roof models).	■ Easy maintenance (no filter) ■ Far lower maintenance frequency than for fans ■ IP55 guaranteed.
Disadvantages		■ Low power dissipated ■ Reduction in the degree of protection IP ■ Risk of ingress of particles and dust if no filter.	■ Internal temperature always higher than the external temperature ■ Maintenance required: change of filters.	■ Internal temperature always higher than the external temperature.
Illustration		 Outlet grids	 Fans	 Air-air exchangers

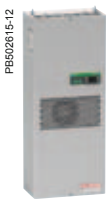
**Ta = ambient temperature (outside the enclosure)*
Td = desired temperature inside the enclosure

Thermal management system
Solutions overview





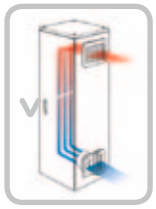


	Cool		Heat
	Air-water exchanger	**Cooling unit**	**Heating resistor**
	Cooling system provided with an exchange coil supplied with cold water and separated from the internal air circuit, a centrifugal fan for the air circuit, and a thermostat to regulate the temperature in the enclosure. Side or roof mounting.	Operates like a heat pump: A condenser removes to the ambient air the calories absorbed by an evaporator. The air inside the enclosure is thus cooled and dried. Side, floor or roof mounting.	The heating resistors prevent the formation of condensation and ensure an ideal temperature inside the enclosure.
	Large quantity of heat to be removed. Difficult environments (cement plant, production lines, greasy workshops, etc.) or humid environments (sewage plant, bottling factory, etc.). Do not discharge calories into the environment.	Highly polluted environment but which permits the use of a filter for external protection of the cooling unit. Do not use ambient air in the cooling circuit.	To heat the inside of the enclosure and prevent condensation.
	Ta > Td	**Ta > Td and Ta ≤ 55°C**	**Ta < Td**
	Yes	**Yes**	-
	■ Internal temperature independent of the external temperature ■ Security system against any leaks ■ Calories dissipated outside ■ Guaranteed level of protection: IP55 (IP54 for roof models).	■ Internal temperature independent of the external temperature ■ Uniform temperature inside the enclosure. ■ Guaranteed level of protection: IP54 for roof and floor models, IP55 for side models and the SLIM range ■ Use of an ecological gas.	■ Small size (1.6 mm thick for the ultra-thin version) ■ Low surface temperature (< 70°C for insulated version, 75°C for aluminum version) ■ Uniform temperature inside the enclosure with the version equipped with a fan.
	■ There must be a cold water circuit of stable temperature and flow rate ■ Installation of special piping.	■ Installation of a system from removal of condensation water from the evaporator ■ Maintenance required: change of filters.	
	 Air-water exchangers	 Cooling units	 Heating resistors

Thermal management system
Introduction

> Large range of fans:
flow rate efficiency, high protection rating, quick installation and easier maintenance to secure all the applications.

DB300448-41



PB501021-80



Ventilation Systems

PB501039-22



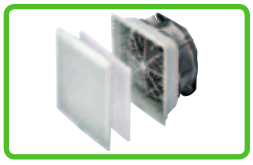
PB501040-42



Easy installation

Quick installation
- Safe, reliable fixing with the assisted fixing device and the system of multi-thickness fixing-clips.
- Fixing also possible using screws.
- Easy to invert.
- To operate as extractors, all the motors can be inverted by simply removing four screws.

PB501041-27



Easy maintenance

Quick filter replacement
Quick, easy and safe replacement of the filter installed in the fan, even during operation.

PB501042-28



Quality of the components

Selection of the motors
- Improved flow rate and longer service life.
- Large range of input voltages available on all the motors delivered as standard, with alternating 50/60 Hz or direct current.

DB123816-26

Certifications
- UL

PB501032-38



Optimised flow rate: average increase of 50 %
- Maximum use of surface.
- Minimum loss of pressure.

Thermal management system
Introduction

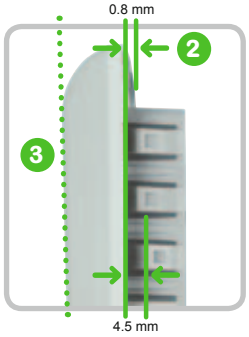
High protection rating: IP54 as standard

PB501034-40



1 - Fixing guide
- To centre the body of the fan on the wall of enclosure.
- To correct machining faults.
- To facilitate the correct operation of the fixing "clips".

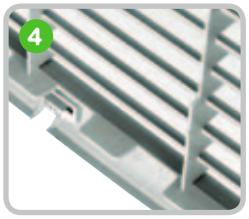
PB501035-86



2 - Multi-thickness fixing-clips
- To guarantee easy and reliable fixing of the ventilation system.
- With a thickness of 0.8 to 4.5 mm, with no fixings.

3 - Inclined profile of the grille
- To protect the filter against vertical spraying:
  - each slat is protected by the slat above it,
  - the external dimensions remain small.

PB501036-52



4 - IP54-55
A patented system allows the evacuation of water absorbed by the filter, in particular during high-pressure spraying.

PB501037-40



5 - Hot-fitted sealing gasket
The polyurethane gasket, hot cast, guarantees a long-lasting seal.

PB501038-51



6 - Effective system for retaining the filter
The system for holding the synthetic filter in the cavity of the filter holder guarantees a protection rating of IP54, in the most difficult conditions.

Thermal management system
Characteristics

Ventilation Systems

Forced ventilation

Characteristics

Material	
Colour	
Conditions of use	

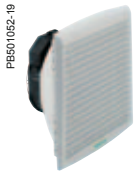
Ingress protection rating	
Installation	
Options	

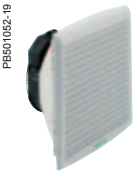
Free flow rate with standard filter (m^3/h)	Flow rate with outlet grille(s) (m^3/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
38 (50 Hz) 39 (60 Hz)	25 (50 Hz) 26 (60 Hz)	33 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
38 (50 Hz) 39 (60 Hz)	27 (50 Hz) 28 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
58	39	47 (50 Hz)	10 V...27.6 V (24 V DC)	3.6 W (0.18 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+ 70°C	29 Pa
44	34	41 (50 Hz)	36 V...56 V (48 V DC)	3.6 W (70 mA)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+ 70°C	29 Pa
85 (50 Hz) 98 (60 Hz)	63 (50 Hz) 72 (60 Hz)	71 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
79 (50 Hz) 92 (60 Hz)	65 (50 Hz) 74 (60 Hz)	73 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
80	57	77 (50 Hz)	10 V...27.6 V (24 V DC)	7.6 W (0.30 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+ 70°C	50 Pa
79	59	68 (50 Hz)	25 V...55.2 V (48 V DC)	8 W (0.173 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+ 70°C	50 Pa
165 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 175 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
164 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 179 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
188	171	179	10 V...27.6 V (24 V DC)	8 W (0.3 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+ 70°C	50 Pa
193	171	179	25 V...55.2 V (48 V DC)	8.7 W (0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+ 70°C	50 Pa
302 (50 Hz) 350 (60 Hz)	260 (50 Hz) 307 (60 Hz)	268 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+ 70°C	158 Pa
302 (50 Hz) 350 (60 Hz)	263 (50 Hz) 307 (60 Hz)	271 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10…+70°C	158 Pa
262	221	229 (50 Hz)	12 V...30 V (24 V DC)	13 W (0.53 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10...+ 70°C	158 Pa
247	210	218 (50 Hz)	25 V...60 V (48 V DC)	11 W (0.24 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10…+70°C	158 Pa
562 (50 Hz) 586 (60 Hz)	473 (50 Hz) 477 (60 Hz)	481 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
582 (50 Hz) 586 (60 Hz)	485 (50 Hz) 477 (60 Hz)	494 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
838 (50 Hz) 803 (60 Hz)	718 (50 Hz) 568 (60 Hz)	728 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
983 (50 Hz) 944 (60 Hz)	843 (50 Hz) 642 (60 Hz)	854 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
931 (50 Hz) 803 (60 Hz)	798 (50 Hz) 568 (60 Hz)	809 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa

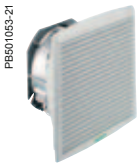
Thermal management system
Characteristics


PB501050-44


PB501051-36


PB501052-19


PB501052-19


PB501053-21

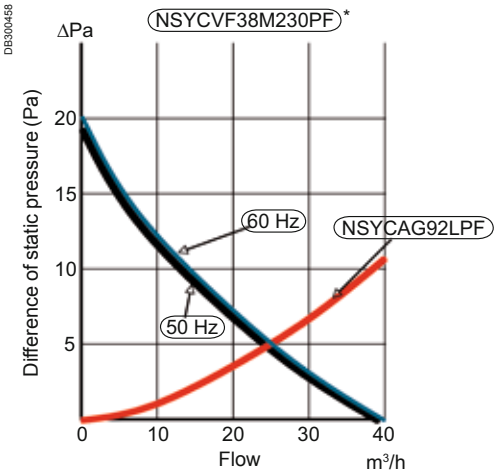
	Forced ventilation fan 38 m³/h	Forced ventilation fan 85 m³/h	Forced ventilation fan 165 m³/h	Forced ventilation fan 300 m³/h	Forced ventilation fan 560-850 m³/h
	The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles. This filter can be replaced during operation without risk of contact with the rotating element.				
	Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0				
	RAL 7035 as standard, with the option of RAL 7032				
	■ The external temperature must not exceed 35°C and must be more than 5°C lower than the temperature wanted in the enclosure ■ The filters that equip the fans must be cleaned and replaced regularly ■ The ambient air must be relatively clean and overfrequent filter replacement should be avoided ■ Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate ■ Storage Temperature: -40…+ 70°C				
	IP54				
	The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling				
	The device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles				
	Type of connection				
	by cable	**by faston (1)**	**by faston (1)**	**by faston (1)**	**by terminal block**
	NSYCVF38M230PF*	-	-	-	-
	NSYCVF38M115PF*	-	-	-	-
	NSYCVF38M24DPF	-	-	-	-
	NSYCVF38M48DPF	-	-	-	-
	-	**NSYCVF85M230PF**	-	-	-
	-	**NSYCVF85M115PF**	-	-	-
	-	**NSYCVF85M24DPF**	-	-	-
	-	**NSYCVF85M48DPF**	-	-	-
	-	-	**NSYCVF165M230PF**	-	-
	-	-	**NSYCVF165M115PF**	-	-
	-	-	**NSYCVF165M24DPF**	-	-
	-	-	**NSYCVF165M48DPF**	-	-
	-	-	-	**NSYCVF300M230PF**	-
	-	-	-	**NSYCVF300M115PF**	-
	-	-	-	**NSYCVF300M24DPF**	-
	-	-	-	**NSYCVF300M48DPF**	-
	-	-	-	-	**NSYCVF560M230PF**
	-	-	-	-	**NSYCVF560M115PF**
	-	-	-	-	**NSYCVF850M230PF**
	-	-	-	-	**NSYCVF850M115PF**
	-	-	-	-	**NSYCVF850M400PF**

(1) Fan models with connection type (F) are delivered with the connection cord included (2 metres).
** Warning: the fan **NSYCVF38M230PF** & **NSYCVF38M115PF** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!*

Thermal management system
Dimensions

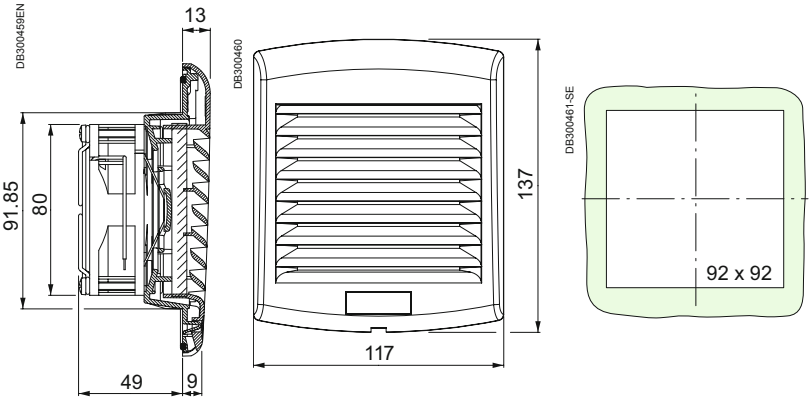
Fan 38 m³/h

Flow curves



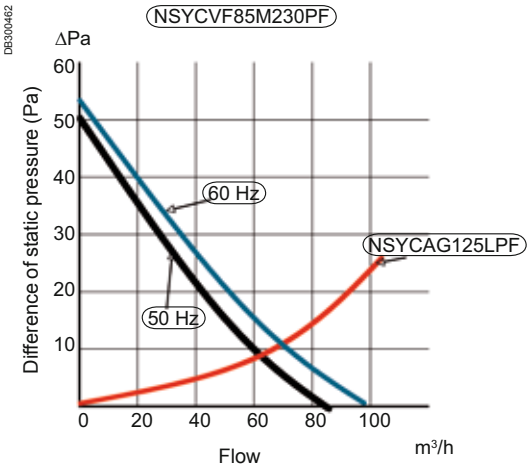
** Warning: the fan **NSYCVF38M230PF** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!*

Dimensions

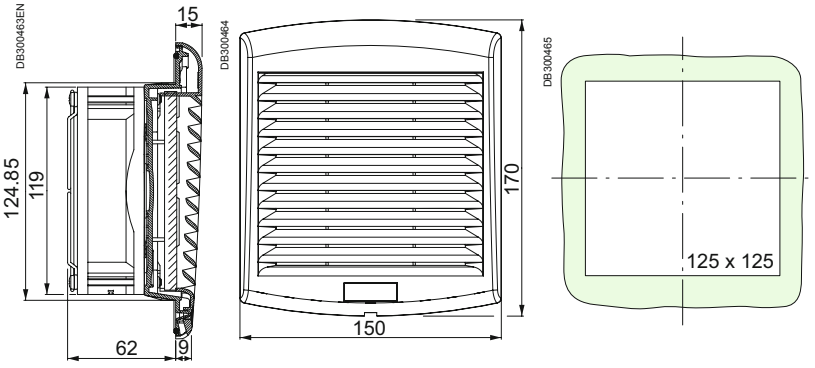


Fan 85 m³/h

Flow curves

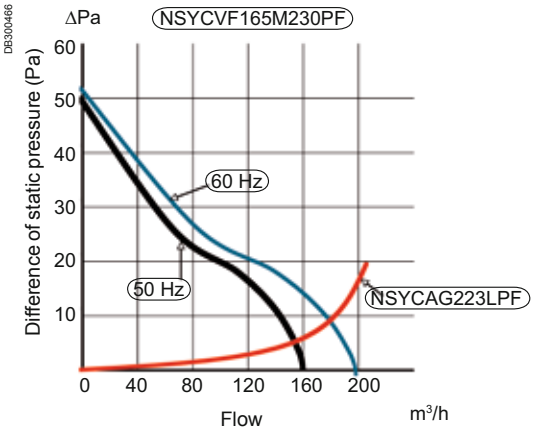


Dimensions

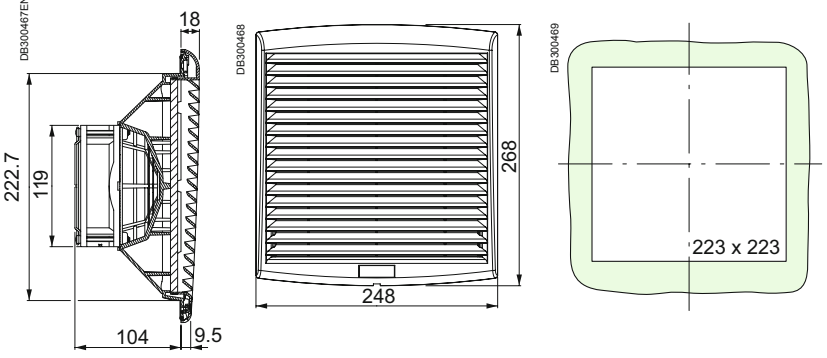


Fan 165 m³/h

Flow curves



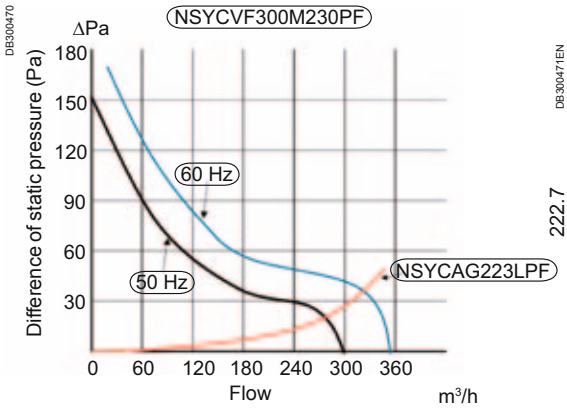
Dimensions



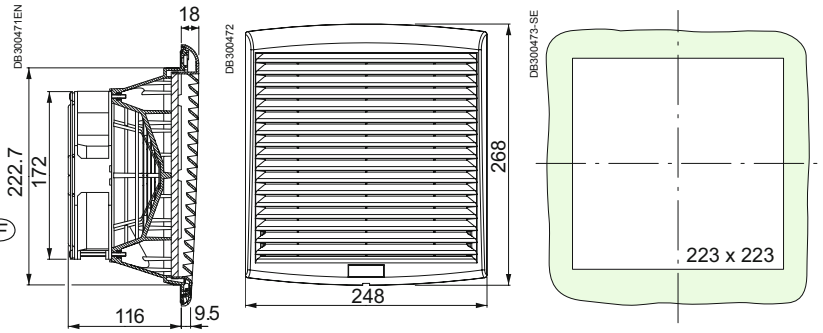
Thermal management system
Dimensions

Fan 300 m³/h

Flow curves

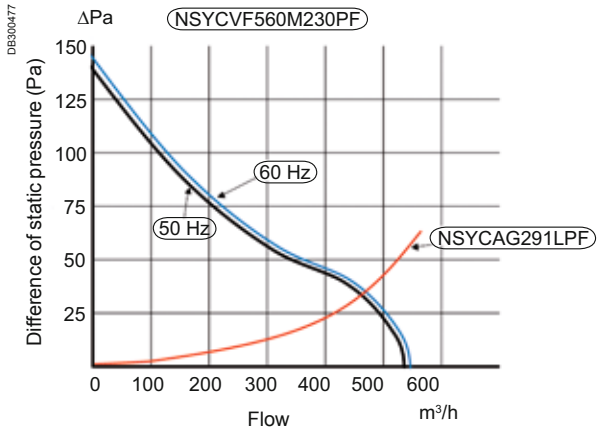


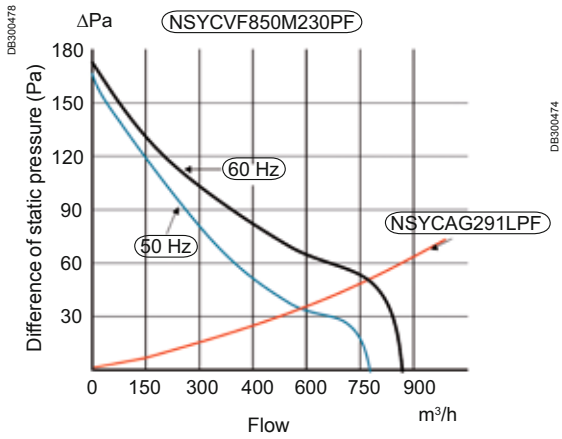
Dimensions



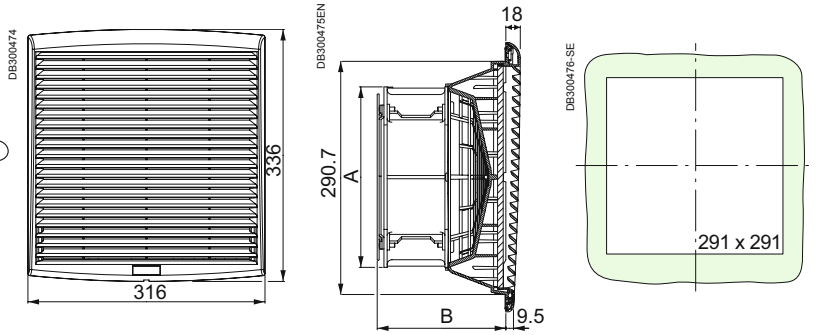
Fan 560-850 m³/h

Flow curves





Dimensions



A	B	References
225	160.5	**NSYCVF560M230PF** **NSYCVF560M115PF**
280	162	**NSYCVF850M230PF** **NSYCVF850M115PF**

Thermal management system
Accessories

Ventilation Systems



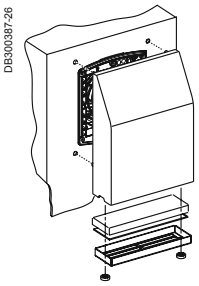
RAL 7035



RAL 7032

Characteristics				IP54 outlet grilles	
				Delivered with G2 M1 synthetic standard filter.	Cover for changing the colour of the standard gille RAL 7035 to RAL 7032.
Material				Injected thermoplastic (ASA PC), self-extinguishing according to UL 94	Injected thermoplastic (ASA PC), self-extinguishing according to UL 94
Colour				RAL 7035	RAL 7032
Ingress protection rating				IP54	IP54
Height (mm)	**Width (mm)**	**Depth (mm)**	**Cut-out (mm)**	**References**	
137	117	13	92 x 92	**NSYCAG92LPF**	**NSYCAG92LPC**
170	150	15	125 x 125	**NSYCAG125LPF**	**NSYCAG125LPC**
268	248	18	223 x 223	**NSYCAG223LPF**	**NSYCAG223LPC**
336	316	18	291 x 291	**NSYCAG291LPF**	**NSYCAG291LPC**



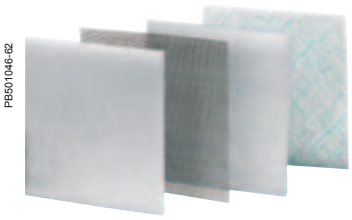


Characteristics	Covers IP55	Spare filter for cover	Fan	Grille
	This solution protects the fan or the grille from any direct sprays. The cover is the preferred solution to guarantee the following: □ an efficient air flow for cooling, □ IP55 rating.	-	-	-
Material	2 materials available: □ sheet-steel painted with epoxy-polyester resin (RAL 7035) for outdoor applications □ stainless-steel 304L for food and beverage applications	-	-	-
Ingress protection rating	IP55	-	-	-
Mechanical protection rating	IK10	-	-	-
Certifications	UL	-	-	-
Installation	Double insulation maintained if installed in an insulated enclosure. The cover is placed over the fan or the grille with a filter located at the bottom of the cover to prevent the entry of particles. Easy access to the filter: only two screws needed. When mounting: remove the external part of the fan or the grille as well as the filter.	-	-	-
Supply	It is necessary to order 1 fan + 1 grille + 2 covers to have a complete system	-	-	-

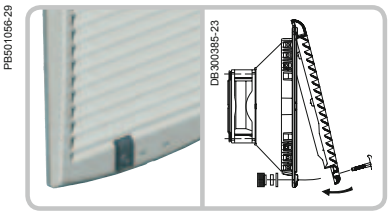
Flow rate (m^3/h)* with cover		Dimensions (mm)		References				
Free	**With 1 outlet grille**	**External**	**Cut-out**	**Sheet-steel painted for outdoor applications RAL 7035**	**Stainless-steel 304L**	**Emb. mineur 5 p**	**RAL 7035**	**RAL 7035**
74	53	240 x 180 x 60	125 x 125	**NSYCAP125LZF**	**NSYCAP125LXF**	**NSYCAF125L55**	**NSYCVF85M230PF**	**NSYCAG125LPF**
110	82	350 x 305 x 80	223 x 223	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAF223L55**	**NSYCVF165M230PF**	**NSYCAG223LPF**
165	123	350 x 305 x 80	223 x 223	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAF223L55**	**NSYCVF300M230PF**	**NSYCAG223LPF**
316	265	430 x 373 x 105	291 x 291	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAF291L55**	**NSYCVF560M230PF**	**NSYCAG291LPF**
502	430	430 x 373 x 105	291 x 291	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAF291L55**	**NSYCVF850M230PF**	**NSYCAG291LPF**

** Values given for a fan powered at 230 V. For other voltages, the values are similar.*

Thermal management system
Accessories



	Filters							
	G2 M1 synthetic standard filters		Filters for greasy environments G2 M1		G3 M1 synthetic fine filters		Stainless-steel anti-insect filters	
	For fans and grilles.							
	-							
	-							
	-							
	Pack.	References	Pack.	References	Pack.	References	Pack.	References
	5	**NSYCAF92**	-	-	-	-	1	**NSYCAF92M**
	5	**NSYCAF125**	5	**NSYCAF125O**	5	**NSYCAF125T**	1	**NSYCAF125M**
	5	**NSYCAF223**	5	**NSYCAF223O**	5	**NSYCAF223T**	1	**NSYCAF223M**
	5	**NSYCAF291**	5	**NSYCAF291O**	5	**NSYCAF291T**	1	**NSYCAF291M**



Characteristics	Anti-vandalism kit
	Prevents the grille from being opened from the outside. The unlocking thumbwheel is accessed from the inside of the wall-mounting enclosure.
Colour	RAL 7011 (same material as the grille: ASA PC)
Minor packaging	**Reference**
2	**NSYCAAPV**

Thermal management system
Accessories

Ventilation system Heavy duty

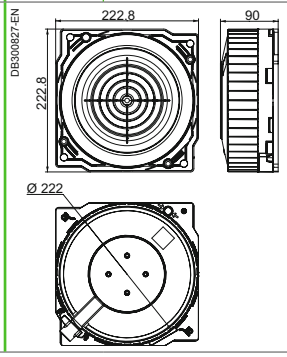
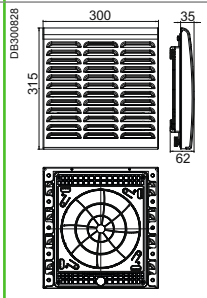
New







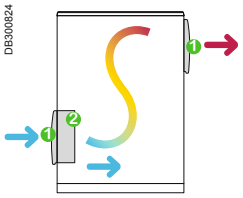


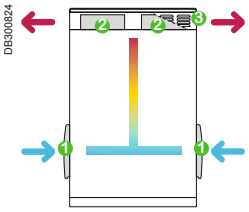
Characteristics	Fanbox		Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille
	■ Free flow rate: 550 m³/h (50/60 Hz). ■ Minimal depth inside the enclosure (90 mm). ■ Allows multiple cooling architectures (see page 500 and 501).		Replacement G3 M1 type synthetic filter for HD metal grille. ■ **Dimensions:** 223 x 223 mm.	Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.	Slim grille (35 mm external depth). Includes a G3 M1 filter.	Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2).
Material	Plastic		-	-	Steel with anti-corrosive coating	Steel with anti-corrosive coating
Finish	-		-	-	Structured finish, 100 % polyester powder	-
Colour	RAL 7016 dark grey		-	-	RAL 7035 grey	-
Ingress protection rating	-		-	-	IP55	-
Mechanical protection rating	-		-	-	IK10	-
Supply	1 (grille not included)		5	1	1 grille delivered with G3 M1 type synthetic filter (223 x 223mm) and fixings.	1 kit
	Voltage	**References**	**Reference**	**Reference**	**Reference**	**Reference**
	24 V DC	**NSYCVF550M24FB**	**NSYCAF223T**	**NSYCAF190**	**NSYCAG223LFHD**	**NSYCAAPVHD**
	24 V CC	**NSYCVF550M48FB**				
	115 V AC	**NSYCVF550M115FB**				
	230 V AC	**NSYCVF550M230FB**				
						

Thermal management system
Ventilation architectures

New

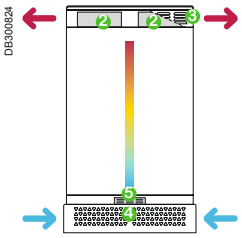
1. *IP55 metal grille*
2. *Fanbox*
3. *Roof ventilated module*
4. *Ventilated plinths*
5. *IP54 grille*





	S-Line				T-Line				
Architecture benefits	■ Most common and competitive architecture ■ Maximum heat dissipation to extract 800 W-1000 W ■ ΔT° of 5°C ■ Easy access to mount-dismount fanbox ■ Air flow in horizontal axis				■ High capacity of extraction calories up to 1500 W ■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module ■ ΔT° of 5°C ■ Air flow in vertical axis				
	IP55 metal grille		**Fanbox**		**IP55 metal grille**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)	**Roof ventilation module**	
	Door	**Side**	**Door**	**Side**	**Door**	**Side**			
Polyester outdoor HD enclosure									
References	**Amount to be installed**				**Amount to be installed**				**References**
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1054	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	**NSYPCVR54HD**
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1254	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	**NSYPCVR54HD**
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
Steel outdoor HD enclosure									
References	**Amount to be installed**				**Amount to be installed**				**References**
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	**NSYS3CVR64HD**
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR64HD**
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR66HD**
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFECA66HD**
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	**NSYSFCVR66HD**
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFECA66HD**
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR126HD**
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR126HD**

Thermal management system
Ventilation architectures





This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

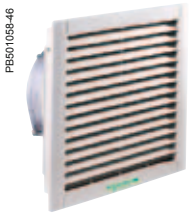
I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

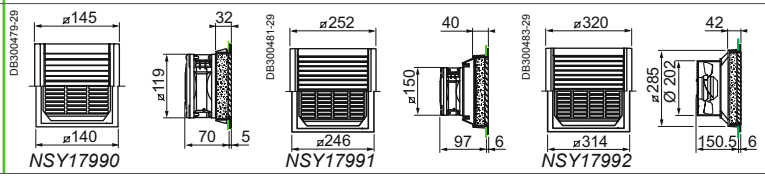
IP54 outlet grille (**NSYCAG223LPF** + G3 filter **NSYCAF223T**)		**Ventilated plinths**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)		**Roof ventilation module**
Amount to be installed		**References**		**Amount to be installed**		**References**
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**

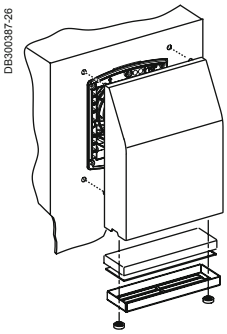
Amount to be installed		**References**		**Amount to be installed**		**References**
1	1	**NSYSPFVX6200**	**NSYSPSX3200**	-	-	-
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYS3CVR64HD**
1	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYSFCVR64HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFECA66HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFECA66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**

EMC ventilation Systems



Characteristics				EMC IP54 fan
				To effectively protect the equipment against electromagnetic disruptions, the EMC fan is equipped with: □ a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0), □ a metal grille attached to the frame, □ a beryllium gasket guaranteeing conductivity between the perimeter of the fan unit and the enclosure.
Ingress protection rating				IP54
External dimensions (mm)	**Cut-out (mm)**	**Flow rate (m^3/h)**	**Voltage (V)**	**References**
145 x 145 x 70	126 x 126	61	230	**NSY17990**
252 x 252 x 97	224 x 224	156	230	**NSY17991**
320 x 320 x 150	292 x 292	480	230	**NSY17992**





Characteristics				EMC IP55 cover
				This solution guarantees protection against electromagnetic disruptions and guarantees IP55. The EMC cover is installed on the fans or standard IP54 outlet grilles. The cover, made from painted sheet-steel for outdoor, completely covers the fan or outlet grille. Conductivity is obtained by means of: □ a conductive coating (2 Ω), □ a conductive copper braid.
Colour				RAL 7035 grey
Ingress protection rating				IP55
Mechanical protection rating				IK10
Certifications				Absorption curve according to standard IEEE 299 1997 (UNE 50147-1)
Flow rate (m^3/h)* with cover		**Dimensions (mm)**		**References**
Free	**With 1 outlet grille**	**External**	**Cut-out**	**Sheet-steel painted for outdoor applications RAL 7035**
74	53	240 x 180 x 60	125 x 125	**NSYCAP125LE**
110	82	350 x 305 x 80	223 x 223	**NSYCAP223LE**
165	123	350 x 305 x 80	223 x 223	**NSYCAP223LE**
316	265	430 x 373 x 105	291 x 291	**NSYCAP291LE**
502	430	430 x 373 x 105	291 x 291	**NSYCAP291LE**

** Values given for a fan powered at 230 V. For other voltages, the values are similar.*

Thermal management system
Accessories

PB501059-46



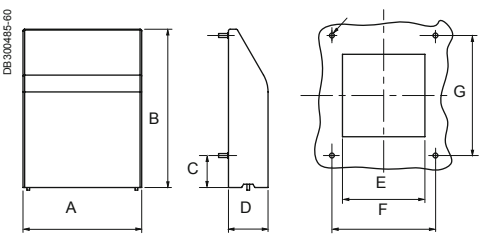
	EMC IP54 outlet grille
	Grille equipped with: □ a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL 94 V-0), □ a metal grille attached to the frame, □ a beryllium gasket guaranteeing conductivity between the perimeter of the grille and the enclosure.
	IP54
	NSY17996
	NSY17997
	NSY17998
	DB300480-5 32 5 *NSY17996* DB300482-6 40 6 *NSY17997* DB300484-5 42 6 *NSY17998*

Dimensions of IP54 and EMC covers

	Spare filter for cover	Fan	Grille
	Minor pack. 5 p	**RAL 7035**	**RAL 7035**
	NSYCAF125L55	**NSYCVF85M230PF**	**NSYCAG125LPF**
	NSYCAF223L55	**NSYCVF165M230PF**	**NSYCAG223LPF**
	NSYCAF223L55	**NSYCVF300M230PF**	**NSYCAG223LPF**
	NSYCAF291L55	**NSYCVF560M230PF**	**NSYCAG291LPF**
	NSYCAF291L55	**NSYCVF850M230PF**	**NSYCAG291LPF**

Dimensions (mm)								Cover references		
A	B	C	D	E	F	G	No. of fixing points	IP55		EMC
180	240	49	60	125	157	182	4	**NSYCAP125LZF**	**NSYCAP125LXF**	**NSYCAP125LE**
305	350	61	80	223	283	280	8	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAP223LE**
373	430	73	105	291	351	348	8	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAP291LE**

DB300485-60



Thermal management system
Accessories

Fans by components

PB501060-75



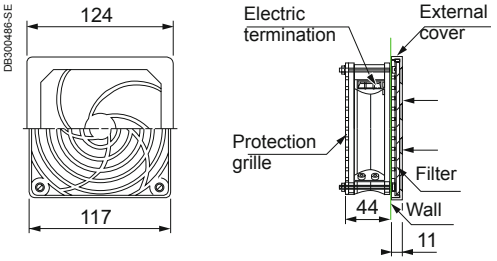
Fans

Free flow without filter or grille: 170 m³/h.
Two models according to the input voltage: 230 and 115 V, 50-60 Hz.
- **Ingress protection rating:** IP20.
- **Options:** IP20 outlet grille (ABS, black) and filter (black polyurethane foam).

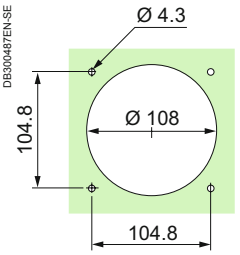
Voltage (V)	Flow rate (m³/h)	References
115	65	**NSYCVF65M115PF**
230	65	**NSYCVF65M230PF**

Accessories		
Dimensions (mm)	**Description**	**References**
124 x 124 x 11 mm	**Outlet grille**	**NSYCAG108LP**
-	**Filter**	**NSYCAF108**

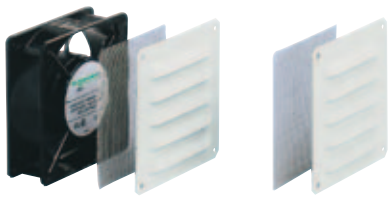
DB300486-SE



DB300487EN-SE



PB501061



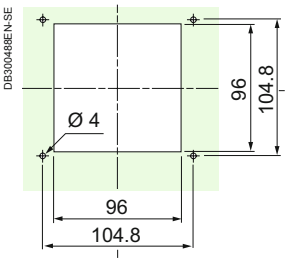
Ventilation kit

- **Ingress protection rating:** IP33.
- **Mechanical protection rating:** IK10.
- **Overall flow rate:** 54 m³/h.
- **Supply:**

□ one 120 120 x 120 x 38 mm fan, 230 V - 50/60 Hz, free flow rate 170 m³/h, IP33/IK10,
□ two 120 x 120 mm metal grilles, RAL 7035,
□ two 115 x 98 mm anti-insect filters, stainless-steel 304L wire Ø 0.32 mm braided, 1.07-mm meshes,
□ 1 power cord,
□ the fixings required for installation.

Voltage (V)	Flow rate (m³/h)	Reference
230	54	**NSYCVF54M230MM2**

DB300488EN-SE



PB501062-56



Top hood with fan
ref. ***NSYCVF575M230MF / NSYCVF570M115MF***

Top hood with fan

Fan with hood, for floor-standing enclosures. A flow rate of 350 m³/h is obtained with an outlet grille ref. **NSYCAG291LPF**, (cut-out 291 x 291 mm).
- **Ingress protection rating:** IP54.
- **Certification:** UL.
- **Installation:** installation and removal from the outside.
- **Electric power:** 85 W.
- **Noise level:** 64 dB (A).
- **Supply:** delivered with fixings and connection terminal block.

Voltage (V)	Flow rate* (m³/h)	Weight (kg)	References
115	570	5.8	**NSYCVF570M115MF**
230	575	5.8	**NSYCVF575M230MF**

** Flow rate measured without counter-pressure.*

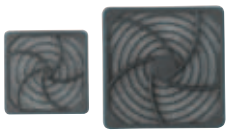
Thermal management system
Accessories

Fans by components

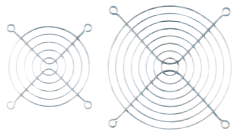
PB501063-33



PB501064-32

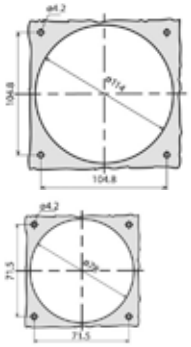


PB501065-34



Characteristics					Fan motor	Outlet grille	Rear protective grille
					Turbine-type fan motor for ventilation/extraction.	Outlet filter kit for enclosure ventilation. For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.	Protective grille for enclosure fan motor. For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.
Flow rate (m^3/h)	**Voltage (V)**	**Absorbed power (W)**	**Noise level (dB)**	**External dimensions (mm)**	**References**		
156	230/50-60	17/15	42	120 x 120 x 38	**NSYCVF156M230**	**NSYCAG114LPF**	**NSYCVA114M**
	120/50-60	17/15	42	120 x 120 x 38	**NSYCVF156M115**	**NSYCAG114LPF**	**NSYCVA114M**
35	230/50-60	16/14	32	80 x 80 x 25	**NSYCVF35M230**	**NSYCAG78LPF**	**NSYCVA78M**
	120/50-60	16/14	32	80 x 80 x 25	**NSYCVF35M115**	**NSYCAG78LPF**	-

DB300489EN-92



PB501066-58



Fan connection cable

For coupling to the connection terminal of the fan motors.

Reference
NSYCVAC100

Circulating for internal forced convection



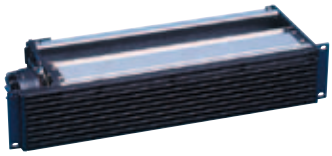
Characteristics								Circulation fan
								User protection according to DIN 31001. Dimensions: ■ Fan: 119 x 119 x 38 mm. ■ Collar: length: 140 mm; fixing centre-to-centre distance: 130 mm. ■ Installation on ball-bearing.
Supply								-
Flow rate (m^3/h)	**Voltage (V)**	**No.**	**Weight (kg)**	**P (W)**	**I (mA)**	**dB (A)**	**Depth (mm)**	**References**
170 (1)	115	-	0.82	17	-	41	-	**NSYCVF170M115**
	230	-	0.82	17	-	41	-	**NSYCVF170M230**
300 (2)	230 (50-60 Hz)	-	-	37	-	-	-	-
486 (2)	230	3	3.3	45	300	43	208	-
972 (2)	230	6	5.5	90	600	44	330	-
1458 (2)	230	9	7.8	135	900	45	452	-
552 (2)	48 (3)	3	3.3	21.3	330	43	208	-

(1) Free flow.
(2) Flow rate measured without counter-pressure.
(3) Direct current.

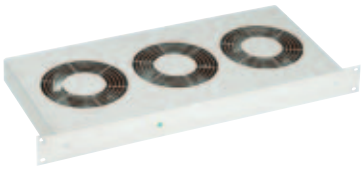
Thermal management system
Accessories

Circulating

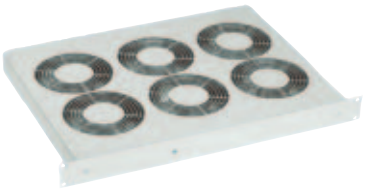
PB501068-49



PB501069-52



PB501070-52



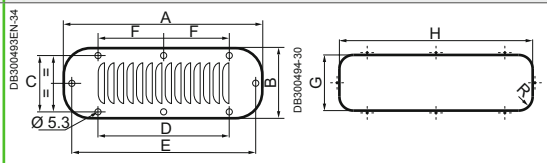
	Tangential fan, 19" 2 U	Circulation fan, 19" 1 U
	Air is sucked in from the front, filtered and forced vertically through the equipment.	Increases the speed of upward air circulation, in particular between trays with cards. Frontal operation LED. It is advisable to install slides, ref. **NSYGB140** to guarantee optimal support of the fan.
	Delivered without connection cord	Delivered without connection cord
	-	-
	-	-
	NSYAVG2U300	-
	-	**NSYAVD1U480**
	-	**NSYAVD1U970**
	-	**NSYAVD1U1450**
	-	**NSYAVD1U550M48**

Thermal management system
Accessories

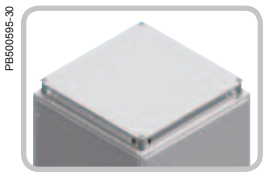
Natural airing



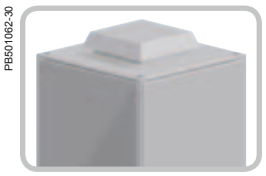
Characteristics												Metal louvre plate, rectangular
Material												Steel
Finish												Painted with epoxy-polyester resin, textured RAL 7035 grey
Ingress protection rating												IP20
Installation												On the sides of the enclosure. Fixing by screws
Supply												1 metal louvre and fixing elements
Dimensions (mm)	**A (mm)**	**B (mm)**	**C (mm)**	**D (mm)**	**E (mm)**	**F (mm)**	**G (mm)**	**H (mm)**	**R (mm)**	**Slot width (mm)**	**No. of slots**	**References**
-	144	62	36	110	-	-	110	46	10	-	-	**NSYCAG110X46M**
-	208	90	72	94	190	-	180	62	18	-	-	**NSYCAG180X62M**
-	244	90	72	130	226	-	216	62	18	-	-	**NSYCAG216X62M**
-	345	118	100	231	327	115.5	317	90.5	30	-	-	**NSYCAG317X91M**
-	345	148	130	231	327	115.5	317	120	30	-	-	**NSYCAG317X120M**
-	445	148	130	267	427	148.5	417	120	30	-	-	**NSYCAG417X120M**
120 x 120	95	104	104.8	-	-	-	-	-	-	90	5	-
160 x 160	110	130	140	-	-	-	-	-	-	100	5	-
220 x 220	190	170	200	-	-	-	-	-	-	180	5	-

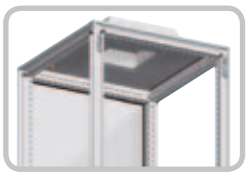


Roof accessories for natural airing

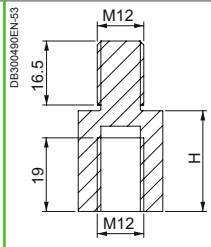


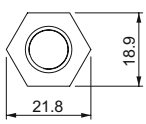


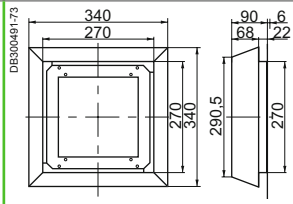


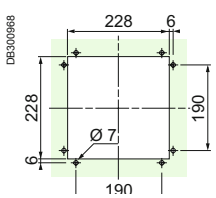


Characteristics		Roof elevators	Hood for natural airing
		Allow the roof to be raised, providing natural airing.	Natural airing device for coupling to the top of metal floor-standing enclosures. Solution for combining with the ventilation slots.
Material		Zinc-coated steel	Steel
Finish		-	Painted with epoxy-polyester resin, textured RAL 7035 grey
Ingress protection rating		-	IP54
Installation		They are screwed onto the structure, at the roof fixing point	Fixing to the top by means of caged nuts and special screws
Supply		4 elevators	1 hood for natural airing and fixing elements
Top elevation (mm) (H)	**Weight (kg)**	**References**	
26	-	**NSYRE26**	-
60	-	**NSYRE60**	-
-	4.6	-	**NSYCAC228RMF**





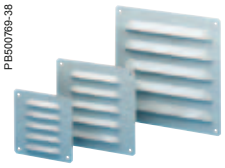


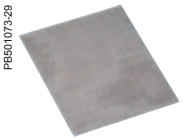


Spare filter
Reference
NSYCAF228R

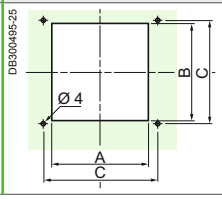
Thermal management system
Accessories

Natural airing

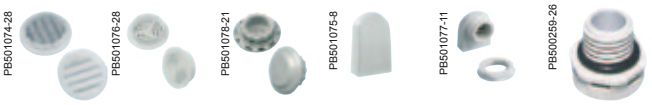

PB500769-38


PB501073-29

	Metal louvre plate, square	Anti-insect filters for metal louvre plate, square		
	-	Stainless-steel 304L Ø 0.32 mm wire mesh, of 1.07 mm, thickness 0.6 mm		
	-	-		
	IP23	IP33		
	-	Between the enclosure and the metal louvre		
	One metal louvre	One anti-insect filter		
		External dimensions (mm)	**Weight (kg/m²)**	**References**
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	NSYCAG104X95LM	98 x 115	0.8	**NSYCAF104X95X**
	NSYCAG130X110LM	133 x 158	0.8	**NSYCAF130X110X**
	NSYCAG170X190LM	197 x 215	0.8	**NSYCAF170X190X**



Other accessories for natural airing



Characteristics				Plastic ventilation louvres					Sealed anti-condensation valve
				Four models available according to IP rating, in vertical position.					Controls the pressure to avoid condensation following an internal temperature increase.
Material				-					PA6-V2, acrylic co-polymer membrane, water and oil repellent
Ingress protection rating				IP22	IP30/44 (1)	IP45	IP44	IP45	IP68
Temperature of use				-					-40… +105°C
Supply				References by unit. Order by multiples of 2 units (2, 4, 6, etc.)					-
Cut-out Ø (mm)	**Permeability (2)**	**Pressure difference (3)**	**Minor pack.**	**References**					
45.5	-	-	-	**NSYCAG45LP**	-	-	-	-	-
35	-	-	-	-	**NSYCAG35LP**	-	-	-	-
38	-	-	-	-	-	**NSYCAG38LP**	-	-	-
33	-	-	-	-	-	-	**NSYCAG33LP**	-	-
19	-	-	-	-	-	-	-	**NSYCAG19LP**	-
M12	16 litres/h	ΔP < 1 bar	10	-	-	-	-	-	**NSYCAG12LPH1**
	120 litres/h	ΔP < 0.1 bar	10	-	-	-	-	-	**NSYCAG12LPH2**

(1) According to installation in the Thalassa PLM wall-mounting enclosure.
(2) Air flow for ΔP = 0.07 bar.
(3) Condition for IP68.

Thermal management system
Introduction

New

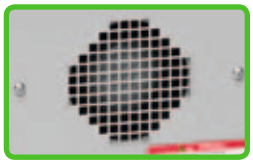
> Choose **air-air exchangers** to take advantage of cooler ambient temperatures, such as food and beverage plants, to evacuate large amounts of heat while guaranteeing the independence of the internal and external air circuits.

PB502596-36



Air-air exchangers: a new range energy efficient

PB502596-48



Higher efficiency through improved design

With an updated external grill design, and by positioning cooling closer to critical equipment, such as speed drives, ClimaSys now provides **better flow, better cooling**, and **higher energy efficiency**.

PB500011SE



Simplicity saves you time

Our free ProClima thermal calculation software **makes specification simple and fast**. A new thermal solutions module integrates calculation for cooling and control devices, helping you maximize the energy efficiency of your systems.



Faster installation

A number of design improvements reduce installation time. Mounting requires single cut-outs and a minimum of screws. Wiring is accomplished with smart interconnects.



Protection

All side-mounted models are IP55 internally according to EN 60529.

DB406142



New certifications and declarations

- CE
- EAC

Thermal management system
Characteristics

New

Air-air exchangers



Characteristics	Side-mounting models			
	The air-air exchanger can be used in heavily polluted environments provided that the ambient temperature is at least 10°C lower than the internal temperature wanted.			
Material	Painted zinc-coated steel			
Colour	RAL 7035 grey			
Ingress protection rating	IP55			
Certifications	CE, EAC declaration			
Installation	Indoor			
Cooling characteristics				
Specific power	22 W/K	36 W/K	50 W/K	80 W/K
Air flow of the internal circuit (enclosure)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Thermostat type	-	Mechanical	Mechanical	Mechanical
Temperature setting range	-	+5 … +60°C	+5 … +60°C	+5 … +60°C
Temperature range external circuit (ambient)	-5 … +55°C	-5 … +55°C	-5 … +55°C	-5 … +55°C
Type of fluid	Air	Air	Air	Air
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Rated Intensity	0.5 A	0.7 A	0.7 A	1.1 A
Power consumption absorved	72 W	160 W	160 W	240 W
Thermal protection recommended (fuse)	T1 A	T1 A	T1 A	T2 A
Physical characteristics				
External dimensions (H x W x D)	413 x 189 x 149 mm	771 x 316 x 103 mm	771 x 316 x 103 mm	1260 x 317 x 148 mm
Protection degree IP internal /external	IP55 / IP22	IP55 / IP22	IP55 / IP22	IP55 / IP22
Noise level	59 dB	62 dB	62 dB	64 dB
Weight of unit	7 kg	10 kg	10 kg	17 kg
References				
	NSYCEA22E	**NSYCEA36**	**NSYCEA50**	**NSYCEA80**

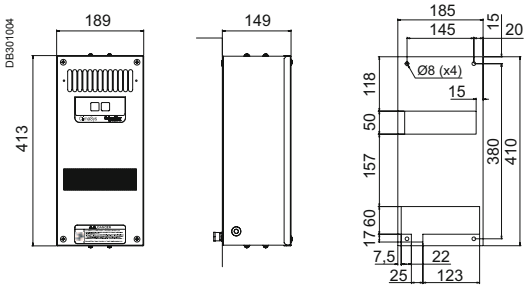
Thermal management system
Dimensions

New

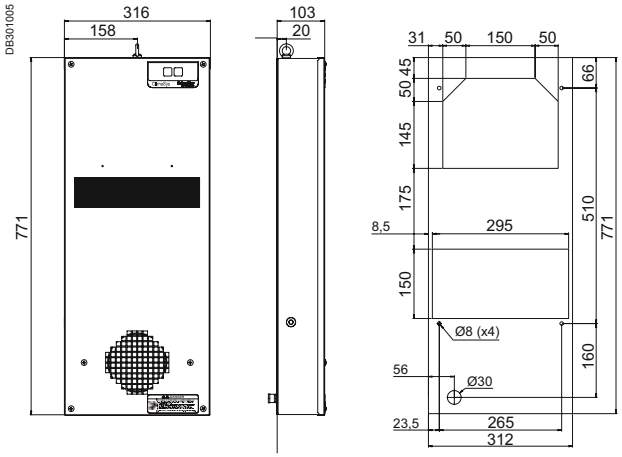
Air-air exchangers

Side-mounting models

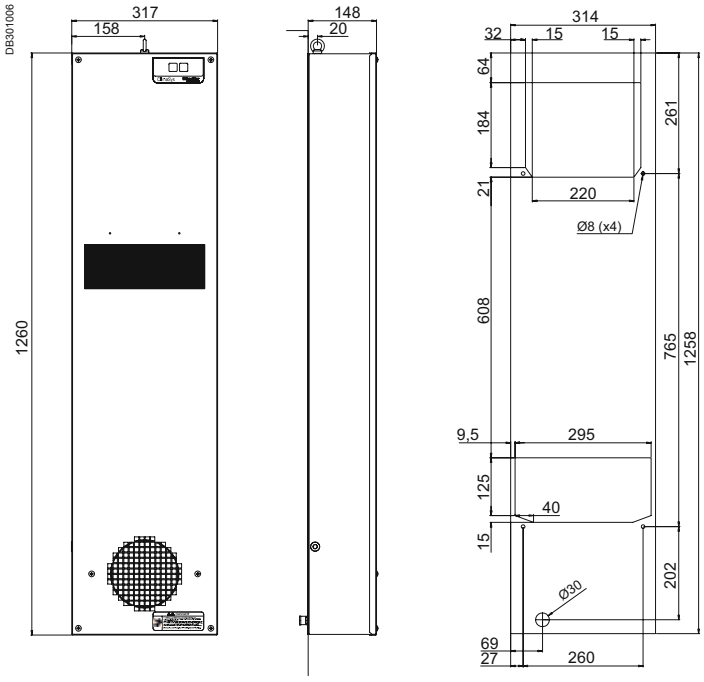
NSYCEA22E



NSYCEA36 / NSYCEA50



NSYCEA80



Units of measurement are mm.

Thermal management system
Introduction

New

> Choose **air-water exchangers** for especially difficult environments where there is no external air circuit available but a stable cold-water circuit can be supplied.

PB502608-36



Air-water exchangers: for highly polluted environments

PB502606-30

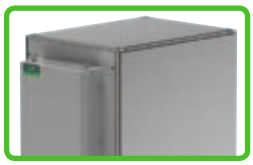


Many mounting options give you the right fit
Air-water exchangers offer roof and side mounting options.

15 kW

Extended ratings to meet any challenge
Provide options for up to 15 kW of cooling power, among the world's highest power ratings for air-water exchangers.

PB502655-32



New material options adapt to any application
Air-water exchangers can be provided in the same material as electrical enclosures for (for example stainless steel) a homogeneous appearance and thermal performance.

DB123816-26

Certifications and declarations
- UL
- CE
- EAC

PB502607-13



Protection
All side -mounting models are IP55 type protected internally and externally according EN 60529. Top-mounting models are IP54.

Thermal management system
Characteristics

New

Air-water exchangers







Characteristics	Side-mounting models				
	Main components: thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. Eyebolts included in all models.				
Material	RAL 7035 grey painted zinc-coated steel or stainless steel				
Ingress protection rating	IP55				
Certifications	■ CE declaration ■ UL (only references ending with UL) ■ EAC				
Installation	Indoor				
Cooling characteristics					
Cooling power W10A35	1000 W	1750 W	2500 W	3500 W	4500 W
Hydraulic circuit maximum pressure	5 bar	5 bar	5 bar	5 bar	5 bar
Air flow of the external circuit (ambient)	330 m³/h	570 m³/h	860 m³/h	1050 m³/h	1450 m³/h
Thermostat type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Temperature setting range	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Temperature range external circuit (ambient)	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C
Type of fluid	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
Water flow	150 l/h	150 l/h	500 l/h	500 l/h	500 l/h
Pressure drop	0.1 bar	0.1 bar	0.3 bar	0.2 bar	0.2 bar
Hydraulic connection	3/8" G	1/2" G	1/2" G	1/2" G	1/2" G
Electric characteristics					
Input voltage	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*
Rated Intensity	0.17 A	0.36 A	0.33 A	0.55 A	0.71 A
Power consumption absorved W10A35	29 W	75 W	80 W	130 W	160 W
Thermal protection recommended (fuse)	T2 A	T2 A	T2 A	T2 A	T2 A
Physical characteristics					
External dimensions (H x W x D)	450 x 310 x 115 mm	901 x 398 x 137 mm	901 x 398 x 137 mm	1148 x 398 x 163 mm	1148 x 398 x 163 mm
Protection degree IP internal / external	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55
Noise level	55 dB (A)	58 dB (A)	58 dB (A)	64 dB (A)	69 dB (A)
Weight of unit	12 kg	18 kg	19 kg	29 kg	30 kg
References					
Steel	**NSYCEW1K**	**NSYCEW1K8**	**NSYCEW2K5**	**NSYCEW3K5**	**NSYCEW4K5**
Stainless steel	**NSYCEWX1K**	**NSYCEWX1K8**	**NSYCEWX2K5**	**NSYCEWX3K5**	**NSYCEWX4K5**
Steel UL	**NSYCEW1KUL**	**NSYCEW1K8UL**	**NSYCEW2K5UL**	**NSYCEW3K5UL**	**NSYCEW4K5UL**
Stainless steel UL	**NSYCEWX1KUL**	**NSYCEWX1K8UL**	**NSYCEWX2K5UL**	**NSYCEWX3K5UL**	**NSYCEWX4K5UL**

** 60 Hz only for UL versions.*

Thermal management system
Characteristics


PB502609-20


PB502622-34


PB502606-24

	Top-mounting model
	IP54
6000 W	6000 W	10000 W	10000 W	15000 W	15000 W	2500 W
5 bar	8 bar	8 bar	8 bar	8 bar	8 bar	5 bar
1450 m³/h	1450 m³/h	2420 m³/h	2420 m³/h	2900 m³/h	2900 m³/h	750 m³/h
Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C
Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
800 l/h	800 l/h	2000 l/h	2000 l/h	2000 l/h	2000 l/h	500 l/h
0.5 bar	0.5 bar	3.5 bar	3.5 bar	4.8 bar	4.8 bar	0.3 bar
1/2" G	1/2" G	3/4" G	3/4" G	3/4" G	3/4" G	1/2" G
1 x 230 V / 50-60 Hz*	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz
0.71 A	0.4 A	1.2 A	0.75 A	1.4 A	0.9 A	0.30 A
160 W	170 W	260 W	280 W	320 W	420 W	65 W
T2 A	T1 A	T2 A	T2 A	T4 A	T2 A	T2 A
1500 x 450 x 163 mm	1500 x 450 x 163 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	270 x 400 x 542 mm
IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP54 / IP55
69 dB (A)	69 dB (A)	70 dB (A)	70 dB (A)	72 dB (A)	70 dB (A)	58 dB (A)
40 kg	42 kg	90 kg	90 kg	92 kg	92 kg	19 kg
NSYCEW6K	**NSYCEW6K2P4**	**NSYCEW10K****	**NSYCEW10K2P4****	**NSYCEW15K****	**NSYCEW15K2P4****	**NSYCEW2K5R**
NSYCEWX6K	**NSYCEWX6K2P4**	**NSYCEWX10K****	**NSYCEWX10K2P4****	**NSYCEWX15K****	**NSYCEWX15K2P4****	-
NSYCEW6KUL	-	-	-	-	-	-
NSYCEWX6KUL	-	-	-	-	-	-

*** Available from 2016.*

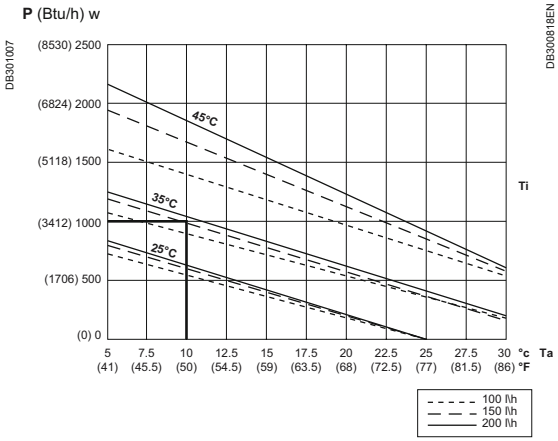
New

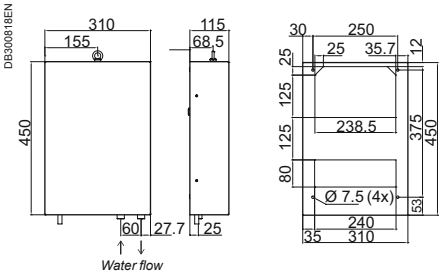
Air-water exchangers

Side-mounting models

NSYCEW••1K••

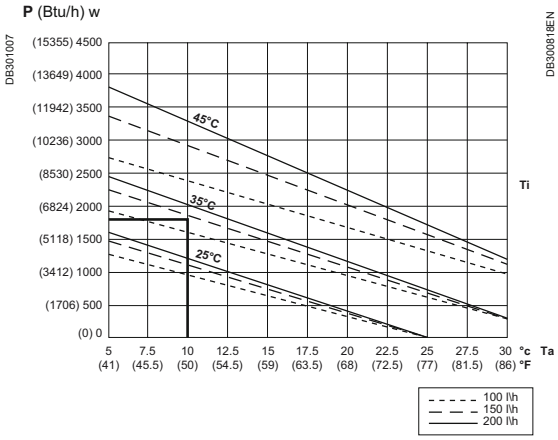
Performance curves

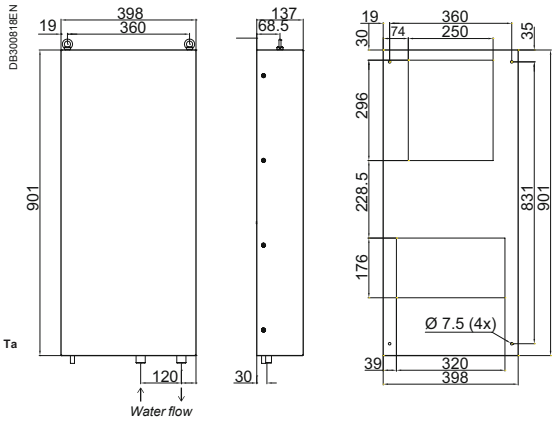


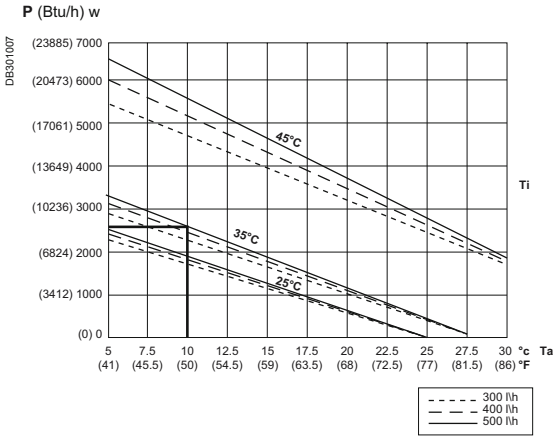


NSYCEW••1K8•• – NSYCEW••2K5••

Performance curves







P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

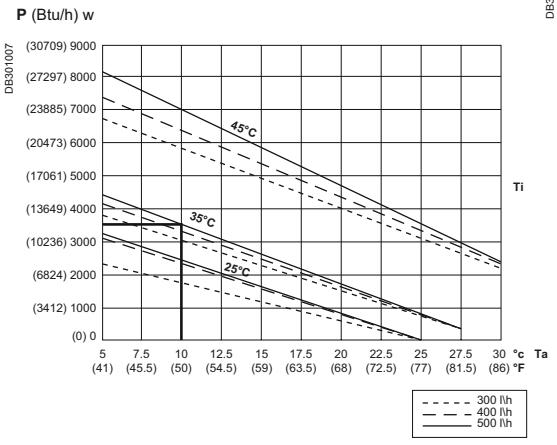
Units of measurement are mm.

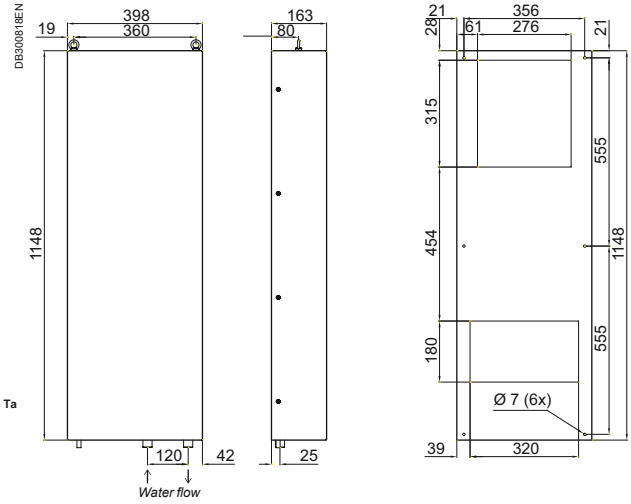
Thermal management system
Dimensions

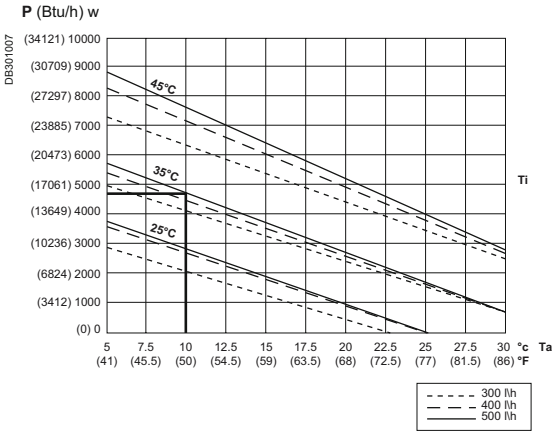
New

NSYCEW••3K5•• – NSYCEW••4K5••

Performance curves

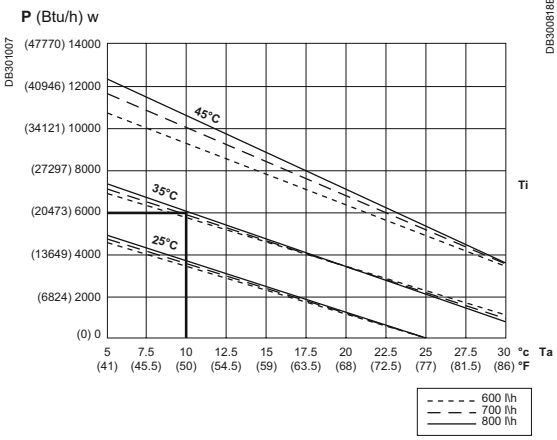


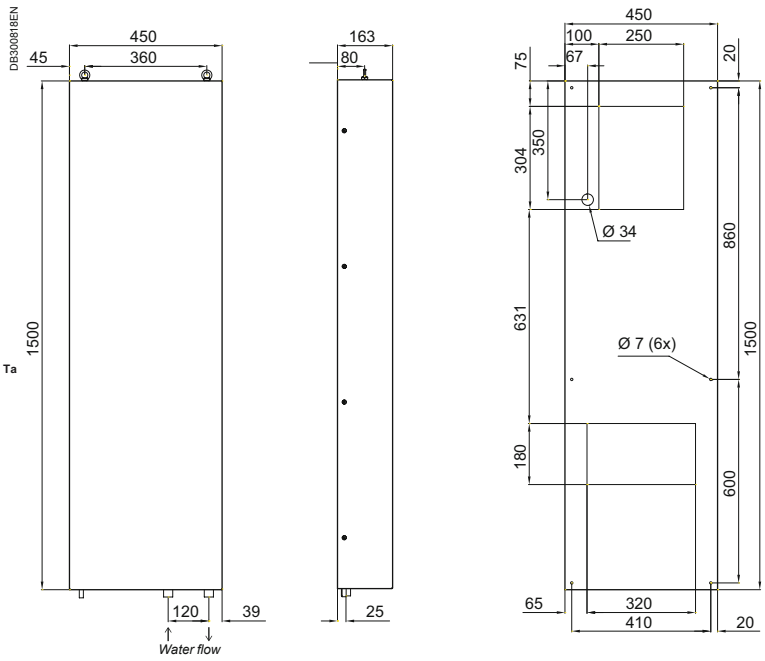




NSYCEW••6K••

Performance curves





P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

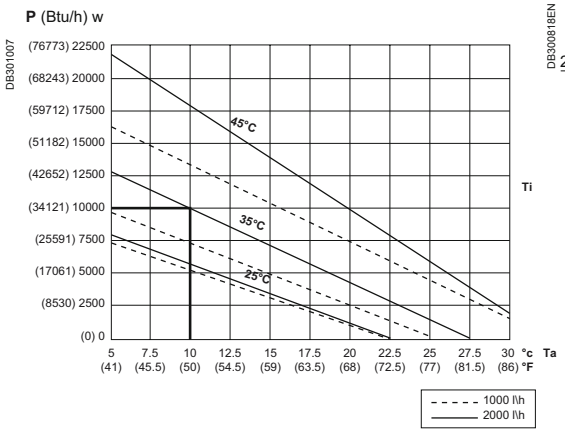
Units of measurement are mm.

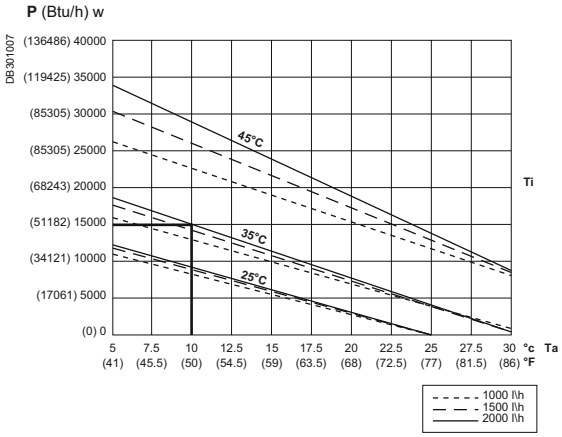
Thermal management system
Dimensions

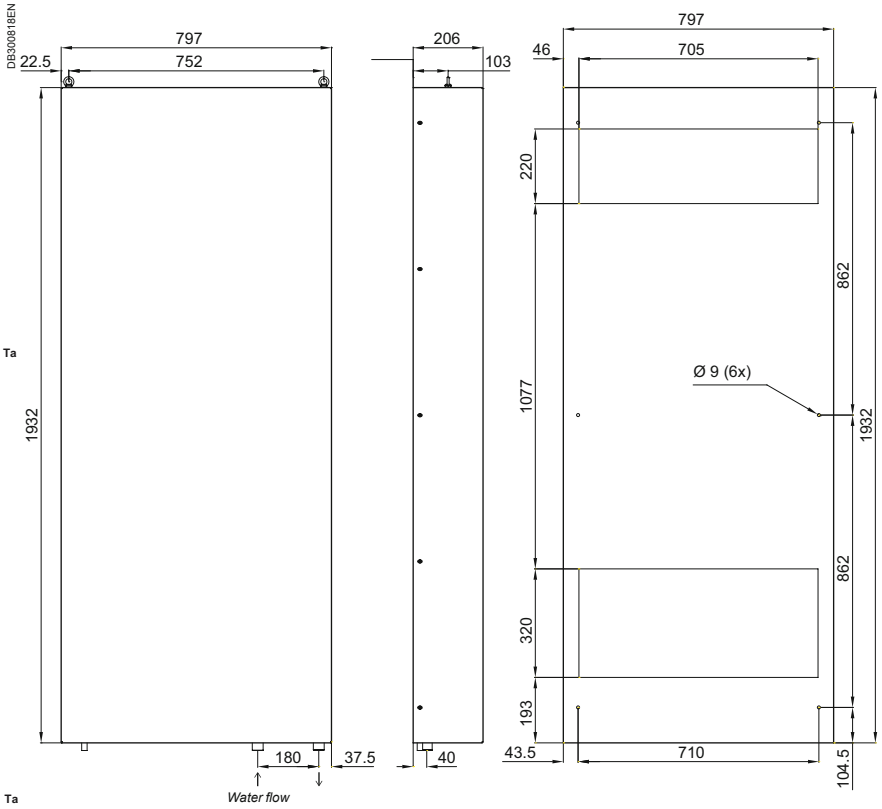
New

NSYCEW••10K•• – NSYCEW••15K••

Performance curves



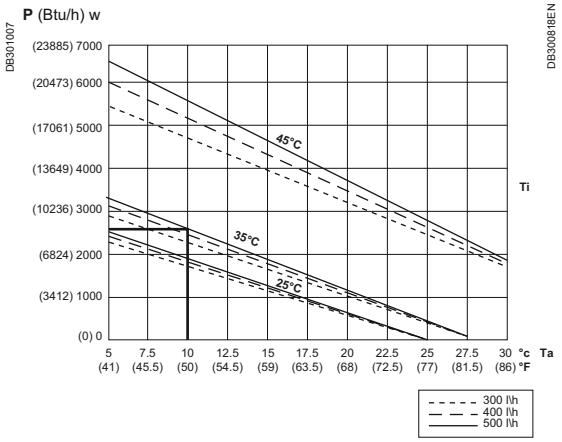


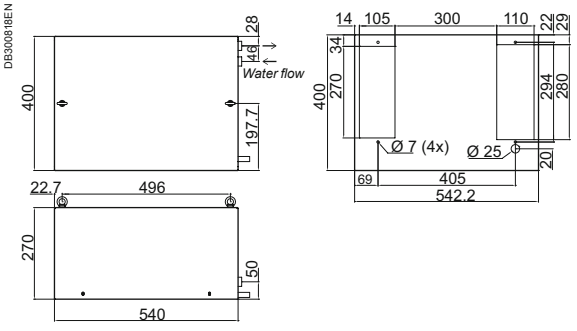


Top-mounting models

NSYCEW2K5R

Performance curves





P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

Units of measurement are mm.

Thermal management system
Accessories

New


PB502593-20


PB502657-36

Characteristics	Air-air and air-water exchangers				Retrofit panel	
	CE		UL / CE			
	Steel	Stainless steel	Steel	Stainless steel		
					Panel that enable to mount a new ClimaSys CE units by replacement of old Schneider Electric cooling systems.	
Material					Metal painted	
Colour					RAL 7035	
Supply					1 unit	
References					**Retrofit panel**	**Old Schneider Electric cooling system**
Air- air exchangers						
Side-mounting models	**NSYCEA36**	-	-	-	**NSYCEARTFIT36**	**NSYCEA35W230VL** **NSYCEA35W230VLE**
	NSYCEA50	-	-	-	-	-
	NSYCEA80	-	-	-	**NSYCEARTFIT80**	**NSYCEA70W230VL**
Air-water exchangers						
Side-mounting models	**NSYCEW1K**	**NSYCEWX1K**	**NSYCEW1KUL**	**NSYCEWX1KUL**	-	-
	NSYCEW1K8	**NSYCEWX1K8**	**NSYCEW1K8UL**	**NSYCEWX1K8UL**	-	-
	NSYCEW2K5	**NSYCEWX2K5**	**NSYCEW2K5UL**	**NSYCEWX2K5UL**	**NSYCEWRTFIT2K5**	**NSYCEW2100W230VL**
	NSYCEW3K5	**NSYCEWX3K5**	**NSYCEW3K5UL**	**NSYCEWX3K5UL**	**NSYCEWRTFIT3K5**	**NSYCEW3150W230VL**
	NSYCEW4K5	**NSYCEWX4K5**	**NSYCEW4K5UL**	**NSYCEWX4K5UL**	-	-
	NSYCEW6K	**NSYCEWX6K**	**NSYCEW6KUL**	**NSYCEWX6KUL**	-	-
	NSYCEW6K2P4	**NSYCEWX6K2P4**	-	-	-	-
	NSYCEW10K	**NSYCEWX10K**	-	-	-	-
	NSYCEW10K2P4	**NSYCEWX10K2P4**	-	-	-	-
	NSYCEW15K	**NSYCEWX15K**	-	-	-	-
	NSYCEW15K2P4	**NSYCEWX15K2P4**	-	-	-	-
Top-mounting model	**NSYCEW2K5R**	-	-	-	-	-



Thermal management system
Introduction

New

> Choose **cooling units** for harsh environments, where **ambient temperatures can reach up to 55°C.** The unit's integrated alarm system will signal you in the event of any operational anomaly.

PB502625-27



PB502632-20



Cooling units: For a high ambient temperature

PB502631



Several mounting solutions
Three models: roof mode, floor model, side model. There is also a SLIM model which permits a space saving and perfect integration on the doors of control panels.

15 kW

Large range of power levels
Provide options for up to 15 kW of cooling power.

PB502661-33



Enhanced protection
An internal grid of a new design protects the components and personnel during operation of the equipment while at the same time **facilitating cleaning and maintenance**.

PB502613



Speed of access to information
The new screen offers fast access to the configuration parameters and information from the sensors located in the enclosure (does not apply to heavy-duty outdoor enclosures).

PB502654-12



New materials
Stainless steel and painted galvanized steel for the outside dedicated to clean, hygienic environments such as food and beverage production plants.

+/- 1.5°C

Precision of temperature control
All ClimaSys cooling units are provided with a precise **electronic control system by thermostat** which gives them high cooling precision (+/- 1.5°C).

Broad temperature range for outdoor enclosures
The outdoor version can withstand extreme environments, with an **operating temperature range** of -20°C to +55°C.

DB123816-26

Certifications and declarations
- UL
- CE
- EAC

PB502660-32



Simplicity
No tools needed to replace the filter.
It just takes a few seconds.

Thermal management system
Characteristics

New

Cooling units



Characteristics	Side-mounting models			
	■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Electronic thermostats in all models. ■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard, is strongly recommended for harsh environments. ■ HMI screen.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications	■ CE declaration ■ UL (only references ending with UL) ■ EAC			
Installation	Indoor			
Cooling characteristics				
Cooling power L35-L35	300 W (1024 Btu/h)	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50	150 W (512 Btu/h)	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+55°C	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 … +55°C*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.13 kg	0.16 kg	0.23 kg	0.23 kg
Maximum pressure cooling circuit	25 bar	26 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4.2 A / 1.5 A	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorved L35-L35	270 W	280 W	400 W	440 W
Power consumption absorved L35-L50	310 W	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.1	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T4 A	T6 A	T6 A
Physical characteristics				
External dimensions (H x W x D)	340 x 525 x 135 mm	460 x 285 x 180 mm	606 x 316 x 212 mm	783 x 348 x 215 mm
Protection degree IP internal /external	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	61 dB	60 dB	65 dB	65 dB
Weight of unit	17 kg	17 kg	21 kg	27 kg
References				
Steel	**NSYCU300H**	**NSYCU400**	**NSYCU600**	**NSYCU800**
Stainless steel	-	**NSYCUX400**	**NSYCUX600**	**NSYCUX800**
Steel UL	-	**NSYCU400UL**	**NSYCU600UL**	**NSYCU800UL**
Stainless steel UL	-	-	**NSYCUX600UL**	**NSYCUX800UL**

** 50°C at 60 Hz.*
*** Certification UL only 60 Hz.*

Thermal management system
Characteristics


PB502595-17


PB502615-19

	1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1250 W (4265 Btu/h)	1250 W (4265 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)
	790 W (2696 Btu/h)	790 W (2696 Btu/h)	910 W (3105 Btu/h)	910 W (3105 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)
	330 m³/h	330 m³/h	570 m³/h	570 m³/h	570 m³/h	570 m³/h	860 m³/h
	570 m³/h	570 m³/h	860 m³/h	860 m³/h	1050 m³/h	1050 m³/h	1050 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*	+55°C	+55°C (+50°C)*	+50°C*	+55°C (+50°C)*
	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C	+5 … +55°C* (+5 … +50°C)*
	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	0.23 kg	0.23 kg	0.38 kg	0.38 kg	0.45 kg	0.45 kg	0.54 kg
	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537
	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 400-460 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 460 V / 60 Hz**	1 x 230 V / 50-60 Hz**
	10.5 A / 3 A	8 A / 2 A	11 A / 3.8 A	8.5 A / 2.8 A	18 A / 5.4 A	11 A / 2.9 A	24 A / 6.5 A
	570 W	590 W	650 W	650 W	850 W	840 W	1080 W
	650 W	670 W	760 W	770 W	970 W	960 W	1290 W
	1.8	1.7	1.9	1.9	1.9	1.9	1.9
	T6 A	T4 A	T6 A	T4 A	T10 A	T6 A	T10 A
	783 x 348 x 215 mm	783 x 348 x 215 (+58) mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	65 dB	65 dB	65 dB	65 dB	65 dB	65 dB	65 dB
	28 kg	29 kg	38 kg	40 kg	40 kg	42 kg	52 kg
	NSYCU1K	**NSYCU1K2P4**	**NSYCU1K2**	**NSYCU1K22P4**	**NSYCU1K6**	**NSYCU1K62P4**	**NSYCU2K**
	NSYCUX1K	**NSYCUX1K2P4**	**NSYCUX1K2**	**NSYCUX1K22P4**	**NSYCUX1K6**	**NSYCUX1K62P4**	**NSYCUX2K**
	NSYCU1KUL	**NSYCU1K2P4UL**	**NSYCU1K2UL**	-	**NSYCU1K6UL**	**NSYCU1K62P4UL**	**NSYCU2KUL**
	NSYCUX1KUL	**NSYCUX1K2P4UL**	**NSYCUX1K2UL**	-	**NSYCUX1K6UL**	**NSYCUX1K62P4UL**	**NSYCUX2KUL**

Thermal management system
Characteristics

New

Cooling units







Characteristics	Side-mounting models			Floor-standing models
	■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard, is strongly recommended for harsh environments.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications	■ CE declaration ■ UL (only references ending with UL) ■ EAC			
Installation	Indoor			Indoor
Cooling characteristics				
Cooling power L35-L35	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)	5800 W (19790 Btu/h)
Cooling power L35-L50	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)	4350 W (14843 Btu/h)
Air flow of the internal circuit (enclosure)	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
Air flow of the external circuit (ambient)	1050 m³/h	1450 m³/h	1450 m³/h	2900 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C (+45°C)*	+20 … +46°C (+45°C)*	+20 … +46°C (+45°C)*	+20 … +46°C
Maximum outside temperature	+50°C (+45°C)	+50°C (+45°C)	+50°C (+45°C)	+50°C
Temperature range external circuit (ambient)	+5 … +50°C (+5 … +45°C)*	+5 … +50°C (+5 … +45°C)*	+5 … +50°C (+5 … +45°C)*	+10 … +50°C
Type of cooling gas	R134a	R134a	R134a	R407c
Cooling gas weight	0.59 kg	0.84 kg	1.14 kg	1.8 kg
Maximum pressure cooling circuit	25 bar (28 bar)*	25 bar (28 bar)*	25 bar (28 bar)*	27 bar
External filter	Optional, see page 537	Optional, see page 537	Optional, see page 537	Polyurethane filter standard
Electric characteristics				
Input voltage	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50 Hz
Starting / Rated Intensity	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A	21.7 A / 5.9 A
Power consumption absorved L35-L35	970 W	1220 W	1780 W	2340 W
Power consumption absorved L35-L50	1150 W	1440 W	2050 W	3880 W
Energy efficiency ratio (EER) L35-L35	2.1	2.4	2.2	2.5
Thermal protection recommended (fuse)	T6 A	T6 A	T8 A	T8 A
Physical characteristics				
External dimensions (H x W x D)	999 x 405 x 237 mm	1270 x 500 x 336 mm	1270 x 500 x 336 mm	2000 x 600 x 380 mm
Protection degree IP internal /external	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP54 / IP34
Noise level	65 dB	70 dB	70 dB	72 dB
Weight of unit	54 kg	84 kg	85 kg	150 kg
References				
Steel	**NSYCU2K3P4**	**NSYCU3K3P4**	**NSYCU4K3P4**	**NSYCU6K3P4****
Stainless steel	**NSYCUX2K3P4**	**NSYCUX3K3P4**	**NSYCUX4K3P4**	-
Steel UL	**NSYCU2K3P4UL**	**NSYCU3K3P4UL**	**NSYCU4K3P4UL**	-
Stainless steel UL	**NSYCUX2K3P4UL**	**NSYCUX3K3P4UL**	**NSYCUX4K3P4UL**	-

** Certification UL only 60 Hz.*
*** Available from 2016.*

Thermal management system
Characteristics


PB502625-21


PB502626-28


PB502627-27

	Indoor						
	6050 W (20643 Btu/h)	7600 W (25932 Btu/h)	7950 W (27126 Btu/h)	9400 W (32074 Btu/h)	9850 W (33610 Btu/h)	14800 W (50500 Btu/h)	15150 W (51694 Btu/h)
	4350 W (14843 Btu/h)	5700 W (19449 Btu/h)	5930 W (20234 Btu/h)	7000 W (23885 Btu/h)	7350 W (25079 Btu/h)	11300 W (38557 Btu/h)	11600 W (39581 Btu/h)
	1450 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	4300 m³/h	4300 m³/h
	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	5800 m³/h	5800 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+50°C	+50°C	+50°C	+50°C	+50°C	+55°C	+55°C
	+10 … +50°C	+10 … +50°C	+10 … +50°C	+10 … +45°C	+10 … +45°C	+10 … +50°C	+10 … +50°C
	R407c	R134a	R134a	R134a	R134a	R410a	R410a
	1.8 kg	2.8 kg	2.8 kg	2.3 kg	2.3 kg	3.5 kg	3.5 kg
	27 bar	27 bar	27 bar	27 bar	27 bar	39 bar	39 bar
	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard
	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz
	23.5 A / 6.8 A	43.8 A / 7.2 A	44.5 A / 7.9 A	30.7 A / 9.1 A	32.5 A / 10.3 A	49 A / 11 A	51 A / 11.8 A
	2920 W	3530 W	4210 W	3850 W	4380 W	5750 W	6580 W
	4520 W	4270 W	5340 W	5400 W	6340 W	6900 W	7760 W
	2.1	2.2	1.9	2.4	2.2	2.6	2.3
	T8 A	T10 A	T10 A	T18 A	T18 A	T20 A	T20 A
	2000 x 600 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 550 mm	2000 x 800 x 550 mm
	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
	72 dB	72 dB	72 dB	77 dB	77 dB	67 dB	67 dB
	150 kg	160 kg	160 kg	180 kg	180 kg	240 kg	240 kg
	NSYCU6K3P460**	**NSYCU8K3P4****	**NSYCU8K3P460****	**NSYCU10K3P4****	**NSYCU10K3P460****	**NSYCU15K3P4****	**NSYCU15K3P460****
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Thermal management system
Characteristics

New

Cooling units



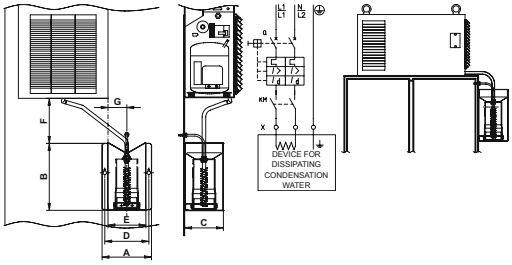




Characteristics	Top-mounting models		
	■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Automatic evaporation system. ■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard, is strongly recommended for harsh environments.		
Material	RAL 7035 grey painted zinc-coated steel or stainless steel.		
Certifications	■ CE declaration ■ UL (only references ending with UL) ■ EAC		
Installation	Indoor		
Cooling characteristics			
Cooling power L35-L35	410 W (1399 Btu/h)	820 W (2798 Btu/h)	1150 W (3924 Btu/h)
Cooling power L35-L50	240 W (819 Btu/h)	680 W (2320 Btu/h)	900 W (3071 Btu/h)
Air flow of the internal circuit (enclosure)	235 m³/h	570 m³/h	570 m³/h
Air flow of the external circuit (ambient)	330 m³/h	860 m³/h	1010 m³/h
Thermostat type	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.17 kg	0.31 kg	0.63 kg
Maximum pressure cooling circuit	28 bar	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 537	Optional, see page 537	Optional, see page 537
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4 A / 1.5 A	12 A / 2.9 A	11 A / 3.2 A
Power consumption absorved L35-L35	230 W	510 W	550 W
Power consumption absorved L35-L50	290 W	560 W	660 W
Energy efficiency ratio (EER) L35-L35	1.8	1.6	2.1
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
Physical characteristics			
External dimensions (H x W x D)	264 x 486 x 259 mm	340 x 600 x 340 mm	415 x 567 x 401 mm
Protection degree IP internal /external	IP54 / IP34	IP54 / IP34	IP54 / IP34
Noise level	65 dB	65 dB	65 dB
Weight of unit	18 kg	23 kg	40 kg
References			
Steel	**NSYCU400R**	**NSYCU800R**	**NSYCU1K2R**
Stainless steel	**NSYCUX400R**	**NSYCUX800R**	**NSYCUX1K2R**
Steel UL	**NSYCU400RUL**	**NSYCU800RUL**	**NSYCU1K2RUL**

** 50°C at 60 Hz.*
*** Certification UL only 60 Hz.*

Device for dissipating condensation water (external installation)



■ Device allowing the evacuation of condensation water from the internal battery (evaporator).
■ Supplied with stainless-steel support.
■ Power supply:

Operating voltage ±10%

Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
230 V~	2.9 A	T 3 A	200 cl/h	PTC
115 V~	5.8 A	T 6 A		

Heat sink

NSYCUAD

Thermal management system
Characteristics

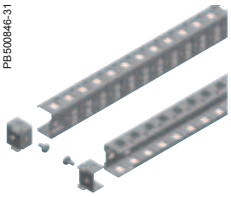

PB502611-26

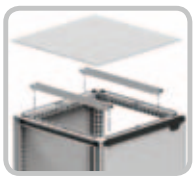

PB502612-35

	1550 W (5289 Btu/h)	2050 W (6995 Btu/h)	2050 W (6995 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
	1200 W (4095 Btu/h)	1560 W (5323 Btu/h)	1560 W (5323 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
	860 m³/h	1050 m³/h	1050 m³/h	860 m³/h	1450 m³/h
	1820 m³/h	1820 m³/h	1820 m³/h	3410 m³/h	3410 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+55°C	+55°C (+50°C)**	+50°C (+45°C)**	+50°C (+45°C)**	+50°C (+45°C)**
	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C*	+5 … +50°C (+5 … +45°C)**	+5 … +50°C (+5 … +45°C)**	+5 … +50°C (+5 … +45°C)**
	R134a	R134a	R134a	R134a	R134a
	0.54 kg	0.55 kg	0.55 kg	1.20 kg	1.60 kg
	25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537
	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*
	18 A / 4.5 A	24 A / 6 A	10 A / 1.9 A	15.7 A / 2.5 A	17 A / 3.6 A
	810 W	1150 W	990 W	1210 W	1790 W
	930 W	1250 W	1190 W	1450 W	2010 W
	1.9	1.8	2.1	2.4	2.2
	T10 A	T10 A	T6 A	T6 A	T6 A
	415 x 567 x 401 mm	415 x 567 x 401 mm	415 x 567 x 401 mm	496 x 797 x 492 mm	496 x 797 x 492 mm
	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
	65 dB	65 dB	65 dB	75 dB	75 dB
	44 kg	50 kg	52 kg	83 kg***	86 kg***
	NSYCU1K5R	**NSYCU2KR**	**NSYCU2K3P4R**	**NSYCU3K3P4R**	**NSYCU4K3P4R**
	NSYCUX1K5R	**NSYCUX2KR**	**NSYCUX2K3P4R**	**NSYCUX3K3P4R**	**NSYCUX4K3P4R**
	NSYCU1K5RUL	-	**NSYCU2K3P4RUL**	**NSYCU3K3P4RUL**	**NSYCU4K3P4RUL**

**** To mount on roof of Spacial SF, it is mandatory to order the roof fixing support (see table below).*

Roof fixing support


PB500946-31


PB503262-24

To install heavy top-mounting models on Spacial SF (cooling units with weight > 65 kg).
- **Material:** steel.
- **Colour:** RAL 7035.
- **Supply:** 2 units.

Depth 600 mm	Depth 800 mm
NSYSUCR4060	**NSYSUCR4080**

Thermal management system
Characteristics

New

Outdoor Heavy Duty cooling units

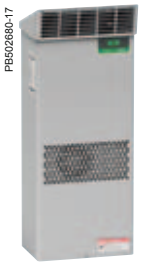






Characteristics	Side-mounting models		
	■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Mechanical thermostats in all models. ■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard. The metallic filter is strongly recommended. ■ Metalic canopy as standard. ■ Anti-corrosive protection (class C3H). ■ Inside components, including the condenser, coated with anti-corrosive protection.		
Material	RAL 7035 grey painted zinc-coated steel		
Certifications	■ CE declaration ■ EAC		
Installation	Indoor or outdoor		
Cooling characteristics			
Cooling power L35-L35	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Mechanic	Mechanic	Mechanic
Temperature range internal circuit (enclosure)	+20 … +50°C	+20 … +50°C	+20 … +50°C
Maximum outside temperature	+55°C	+55°C	+55°C
Temperature range external circuit (ambient)	-20 … +55°C	-20 … +55°C	-20 … +55°C
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.16 kg	0.26 kg	0.28 kg
Maximum pressure cooling circuit	26 bar	25 bar	25 bar
External filter	Optional, see metalic filter on page 537	Optional, see metalic filter on page 537	Optional, see metalic filter on page 537
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Starting / Rated Intensity	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorved L35-L35	280 W	400 W	440 W
Power consumption absorved L35-L50	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
Physical characteristics			
External dimensions (H x W x D)	573 x 300 x 205 mm	718 x 331 x 235 mm	875 x 363 x 239 mm
Protection degree IP internal /external	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	60 dB	65 dB	65 dB
Weight of unit	17 kg	21 kg	27 kg
References			
	NSYCUHD400	**NSYCUHD600**	**NSYCUHD800**

Thermal management system
Characteristics


PB502680-17


PB502677-19

	1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
	790 W (2696 Btu/h)	790 W (2696 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
	330 m³/h	330 m³/h	570 m³/h	570 m³/h	860 m³/h	1450 m³/h	1450 m³/h
	570 m³/h	570 m³/h	1050 m³/h	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h
	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic
	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C
	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C
	-20 … +55°C	-20 … +50°C	-20 … +55°C	-20 … +50°C	-20 … +55°C	-20 … +50°C	-20 … +50°C
	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	0.27 kg	0.27 kg	0.46 kg	0.46 kg	0.65 kg	0.84 kg	1.14 kg
	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar
	Optional, see metalic filter on page 537	Optional, see metalic filter on page 537	Optional, see metalic filter on page 537	Optional, see metalic filter on page 537	Optional, see metalic filter on page 537	Optional, see metalic filter on page 537	Optional, see metalic filter on page 537
	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz
	10.5 A / 3 A	8 A / 2 A	18 A / 5.3 A	11 A / 2.9 A	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A
	570 W	590 W	820 W	840 W	970 W	1220 W	1780 W
	650 W	670 W	940 W	960 W	1150 W	1440 W	2050 W
	1.8	1.7	2.0	1.9	2.1	2.4	2.2
	T6 A	T4 A	T10 A	T6 A	T6 A	T6 A	T8 A
	895 x 363 x 239 mm	895 x 363 x 239 (+58) mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1416 x 512 x 365 mm	1416 x 512 x 365 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	65 dB	65 dB	65 dB	65 dB	65 dB	70 dB	70 dB
	28 kg	29 kg	40 kg	42 kg	54 kg	84 kg	85 kg
	NSYCUHD1K	**NSYCUHD1K2P4**	**NSYCUHD1K6**	**NSYCUHD1K62P4**	**NSYCUHD2K3P4**	**NSYCUHD3K3P4**	**NSYCUHD4K3P4**

Thermal management system
Characteristics

New

Slim cooling units



Characteristics	Side-mounting models			
	■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Electronical thermostat included. ■ 3 mounting positions (surface, half-flush and flush). ■ Alarm Signal for contact door. ■ Eyebolts included.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications	■ CE declaration ■ UL ■ EAC			
Installation	■ Indoor ■ There is one unique cut-out for all mounting positions and all slim models			
Cooling characteristics				
Cooling power L35-L35	1100 W (3753 Btu/h)	1100 W (3753 Btu/h)	1500 W (5118 Btu/h)	1500 W (5118 Btu/h)
Cooling power L35-L50	860 W (2934 Btu/h)	860 W (2934 Btu/h)	1150 W (3924 Btu/h)	1150 W (3924 Btu/h)
Air flow of the internal circuit (enclosure)	860 m³/h	860 m³/h	860 m³/h	860 m³/h
Air flow of the external circuit (ambient)	860 m³/h	860 m³/h	860 m³/h	860 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+50°C	+50°C	+50°C	+50°C
Temperature range external circuit (ambient)	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.5 kg	0.5 kg	0.46 kg	0.46 kg
Maximum pressure cooling circuit	28 bar	28 bar	28 bar	28 bar
External circuit filter	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*
Starting / Rated Intensity	11 A / 4.8 A	8.5 A / 2.7 A	18 A / 5.7 A	11 A / 3.2 A
Power consumption absorved L35-L35	660 W	660 W	840 W	840 W
Power consumption absorved L35-L50	790 W	790 W	970 W	970 W
Energy efficiency ratio (EER) L35-L35	1.7	1.7	1.8	1.8
Thermal protection recommended (fuse)	T6 A	T4 A	T10 A	T6 A
Physical characteristics				
External dimensions (H x W x D)	495 x 1696 x 195 mm	495 x 1696 x 195 mm	495 x 1696 x 195 mm	495 x 1696 x 195 mm
Protection degree IP internal /external	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	64 dB	64 dB	66 dB	66 dB
Weight of unit	50 kg	52 kg	55 kg	57 kg
References				
Steel UL	**NSYCUS1K1UL**	**NSYCUS1K12P4UL**	**NSYCUS1K5UL**	**NSYCUS1K52P4UL**
Stainless steel UL	**NSYCUSX1K1UL**	**NSYCUSX1K12P4UL**	**NSYCUSX1K5UL**	**NSYCUSX1K52P4UL**

** Certification UL only 60 Hz.*

Thermal management system
Characteristics



	2000 W (6824 Btu/h)	2000 W (6824 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)	3200 W (10919 Btu/h)	3200 W (10919 Btu/h)
	1550 W (5289 Btu/h)	1550 W (5289 Btu/h)	1850 W (6312 Btu/h)	1850 W (6312 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)
	860 m³/h	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+50°C	+50°C	+50°C	+50°C	+50°C	+50°C
	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C
	R134a	R134a	R134a	R134a	R134a	R134a
	0.51 kg	0.59 kg	1.2 kg	1.2 kg	0.85 kg	1.25 kg
	28 bar	28 bar	28 bar	28 bar	28 bar	28 bar
	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537	Optional, see page 537
	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*
	24 A / 6.5 A	10 A / 2.1 A	35 A / 10.5 A	14 A / 2.9 A	37 A / 10.5 A	18 A / 3.1 A
	1020 W	1060 W	1340 W	1270 W	1720 W	1650 W
	1160 W	1270 W	1580 W	1510 W	2000 W	1980 W
	2.0	1.9	1.9	2.0	1.9	1.9
	T10 A	T6 A	T16 A	T6 A	T16 A	T6 A
	495 x 1696 x 195 mm	495 x 1696 x 195 mm	495 x 1696 x 235 mm	495 x 1696 x 235 mm	495 x 1696 x 235 mm	495 x 1696 x 235 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	67 dB	67 dB	69 dB	69 dB	69 dB	69 dB
	63 kg	65 kg	80 kg	82 kg	81 kg	83 kg
	NSYCUS2KUL	**NSYCUS2K3P4UL**	**NSYCUS2K5UL**	**NSYCUS2K53P4UL**	**NSYCUS3K2UL**	**NSYCUS3K23P4UL**
	NSYCUSX2KUL	**NSYCUSX2K3P4UL**	**NSYCUSX2K5UL**	**NSYCUSX2K53P4UL**	**NSYCUSX3K2UL**	**NSYCUSX3K23P4UL**

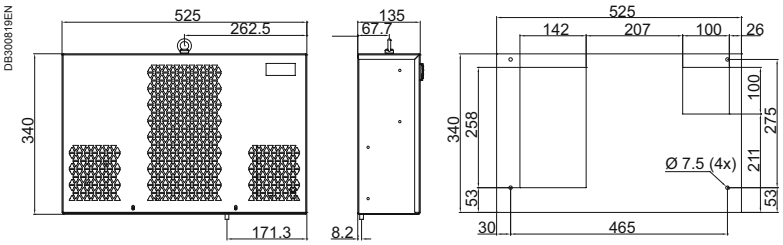
Thermal management system
Dimensions

New

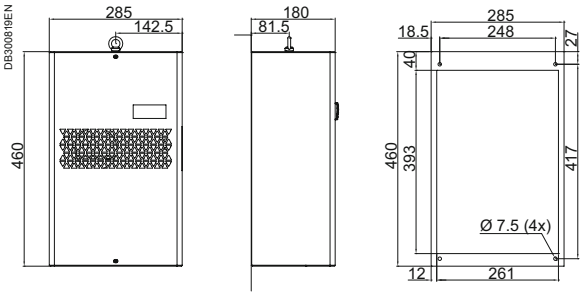
Cooling units

Side-mounting models: dimensions and cut-outs

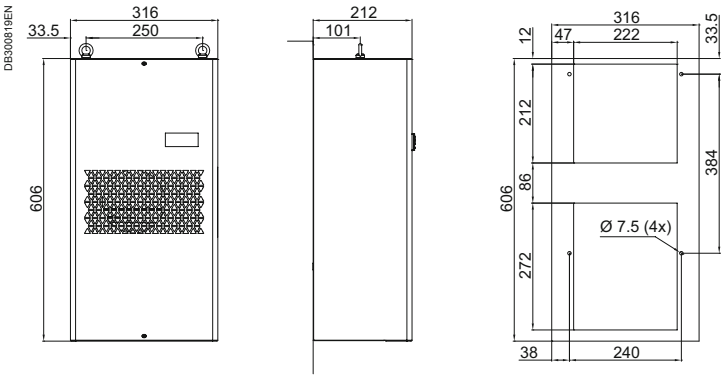
NSYCU300H



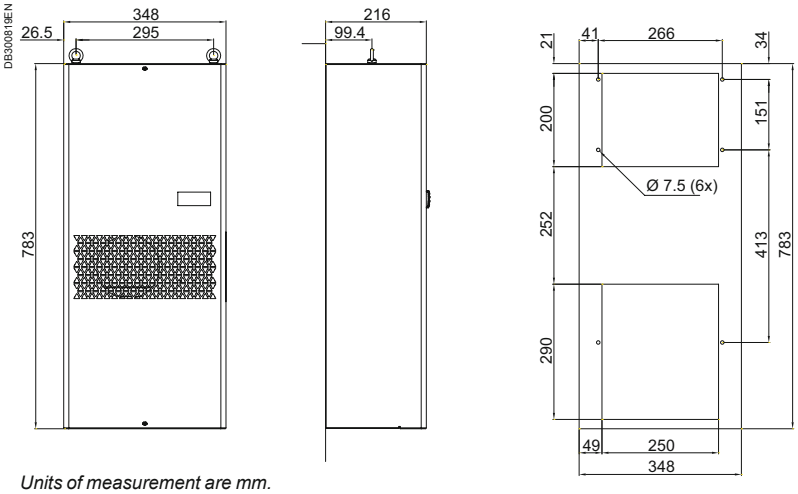
NSYCU••400••



NSYCU••600••



NSYCU••800•• - NSYCU••1K••

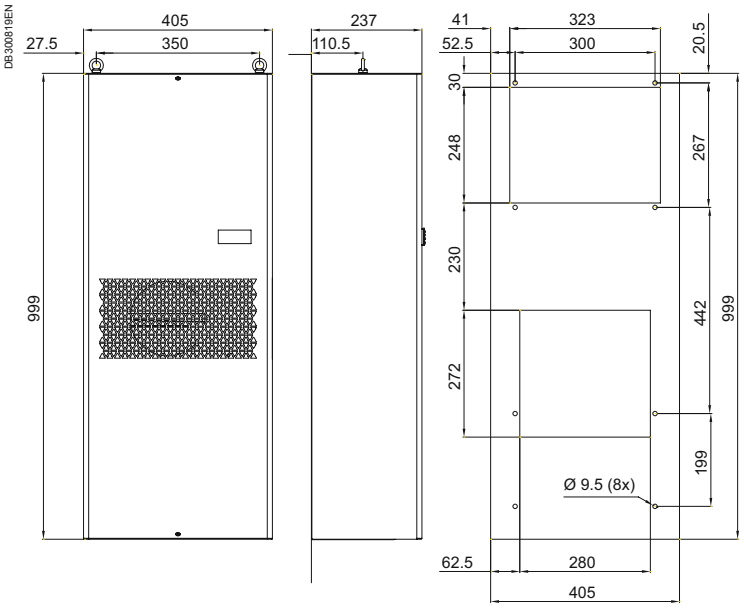


Units of measurement are mm.

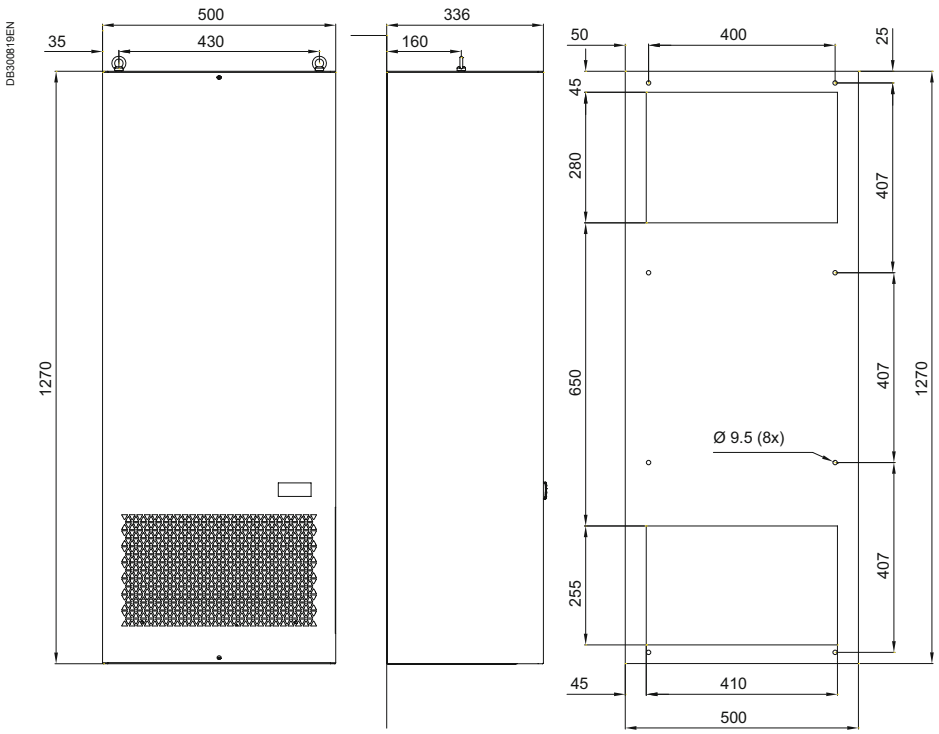
Thermal management system
Dimensions

New

NSYCU••1K2•• - NSYCU••1K6•• - NSYCU••2K••



NSYCU••3K3P4•• - NSYCU••4K3P4••



Units of measurement are mm.

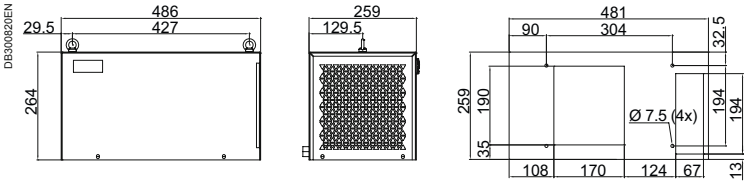
Thermal management system
Dimensions

New

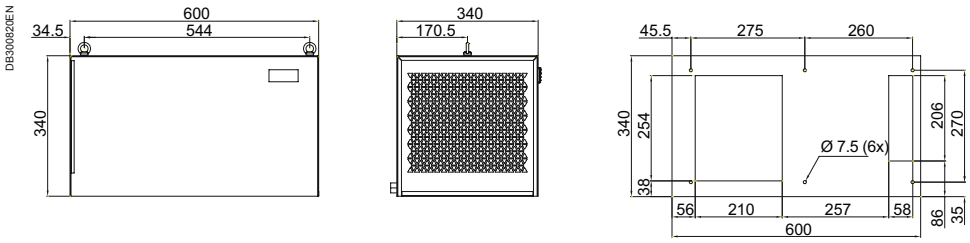
Cooling units

Top-mounting models: dimensions and cut-outs

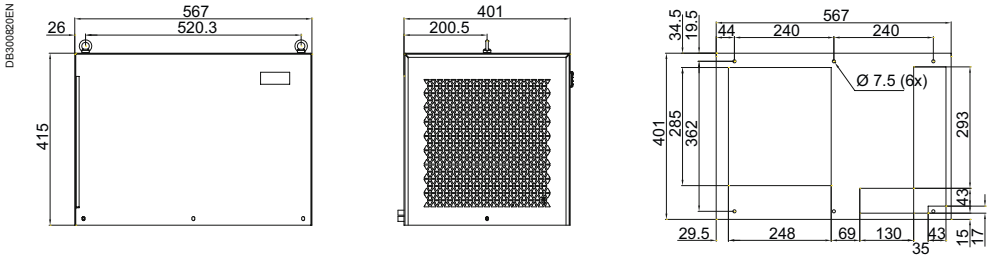
NSYCU••400R••



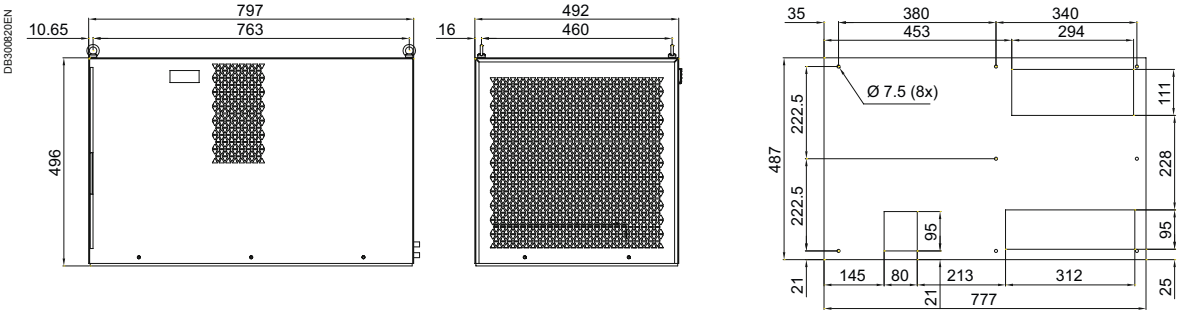
NSYCU••800R••



NSYCU••1K2R•• - NSYCU••1K5R•• - NSYCU••2K••R••



NSYCU••3K3P4R•• - NSYCU••4K3P4R••



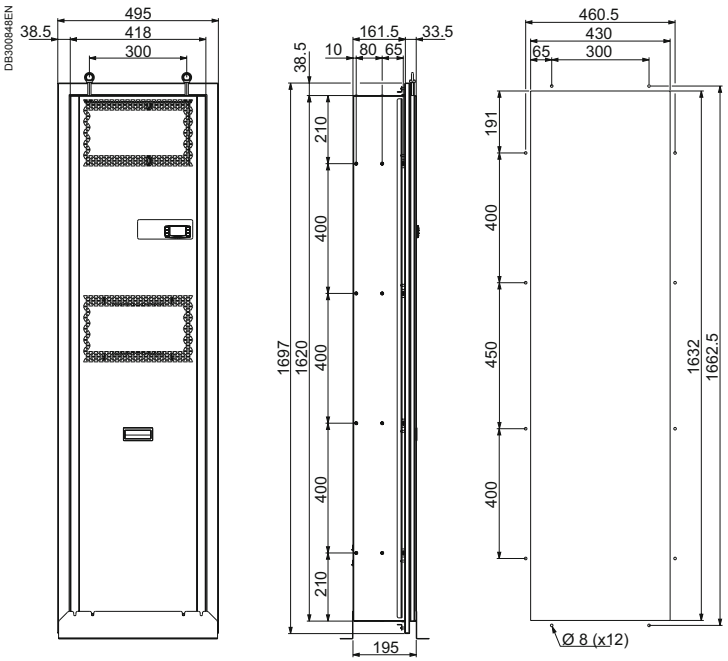
Units of measurement are mm.

Thermal management system
Dimensions

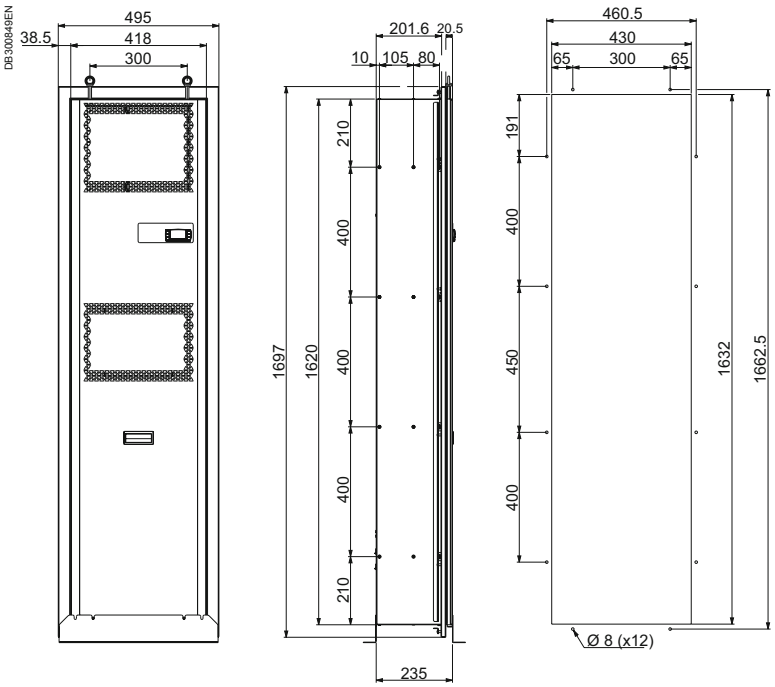
New

Slim cooling units

NSYCUS•1K1• - NSYCUS•1K5• - NSYCUS•2K•



NSYCUS•2K5• - NSYCUS•3K2•



Units of measurement are mm.

Thermal management system
Accessories

New

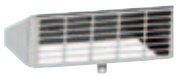


Characteristics	Cooling units				
	IEC			UL	
	Steel	Stainless steel	Outdoor	Steel	Stainless steel
Material					
Colour					
Installation					
Supply					
References					
Cooling units					
Side-mounting models	NSYCU300H	-	-	-	-
	NSYCU400	NSYCUX400	NSYCUHD400	NSYCU400UL	-
	NSYCU600	NSYCUX600	NSYCUHD600	NSYCU600UL	NSYCUX600UL
	NSYCU800	NSYCUX800	NSYCUHD800	NSYCU800UL	NSYCUX800UL
	NSYCU1K	NSYCUX1K	NSYCUHD1K	NSYCU1KUL	NSYCUX1KUL
	NSYCU1K2P4	NSYCUX1K2P4	NSYCUHD1K2P4	NSYCU1K2P4UL	NSYCUX1K2P4UL
	NSYCU1K2	NSYCUX1K2	-	NSYCU1K2UL	NSYCUX1K2UL
	NSYCU1K22P4	NSYCUX1K22P4	-	-	-
	NSYCU1K6	NSYCUX1K6	NSYCUHD1K6	NSYCU1K6UL	NSYCUX1K6UL
	NSYCU1K62P4	NSYCUX1K62P4	NSYCUHD1K62P4	NSYCU1K62P4UL	NSYCUX1K62P4UL
	NSYCU2K	NSYCUX2K	-	NSYCU2KUL	NSYCUX2KUL
	NSYCU2K3P4	NSYCUX2K3P4	NSYCUHD2K3P4	NSYCU2K3P4UL	NSYCUX2K3P4UL
	NSYCU3K3P4	NSYCUX3K3P4	NSYCUHD3K3P4	NSYCU3K3P4UL	NSYCUX3K3P4UL
	NSYCU4K3P4	NSYCUX4K3P4	NSYCUHD4K3P4	NSYCU4K3P4UL	NSYCUX4K3P4UL
Floor-standing models	NSYCU6K3P4	-	-	-	-
	NSYCU6K3P460	-	-	-	-
	NSYCU8K3P4	-	-	-	-
	NSYCU8K3P460	-	-	-	-
	NSYCU10K3P4	-	-	-	-
	NSYCU10K3P460	-	-	-	-
	NSYCU15K3P4	-	-	-	-
	NSYCU15K3P460	-	-	-	-
Top-mounting model	NSYCU400R	NSYCUX400R	-	NSYCU400RUL	-
	NSYCU800R	NSYCUX800R	-	NSYCU800RUL	-
	NSYCU1K2R	NSYCUX1K2R	-	NSYCU1K2RUL	-
	NSYCU1K5R	NSYCUX1K5R	-	NSYCU1K5RUL	-
	NSYCU2K3P4R	NSYCUX2K3P4R	-	NSYCU2K3P4RUL	-
	NSYCU2KR	NSYCUX2KR	-	-	-
	NSYCU3K3P4R	NSYCUX3K3P4R	-	NSYCU3K3P4RUL	-
	NSYCU4K3P4R	NSYCUX4K3P4R	-	NSYCU4K3P4RUL	-
Slim model	-	-	-	NSYCUS1K1UL	NSYCUSX1K1UL
	-	-	-	NSYCUS1K12P4UL	NSYCUSX1K12P4UL
	-	-	-	NSYCUS1K5UL	NSYCUSX1K5UL
	-	-	-	NSYCUS1K52P4UL	NSYCUSX1K52P4UL
	-	-	-	NSYCUS2KUL	NSYCUSX2KUL
	-	-	-	NSYCUS2K3P4UL	NSYCUSX2K3P4UL
	-	-	-	NSYCUS2K5UL	NSYCUSX2K5UL
	-	-	-	NSYCUS2K53P4UL	NSYCUSX2K53P4UL
	-	-	-	NSYCUS3K2UL	NSYCUSX3K2UL
	-	-	-	NSYCUS3K23P4UL	NSYCUSX3K23P4UL

Thermal management system
Accessories


PB502620-23


PB502621-24


PB502658-24


PB502647-37

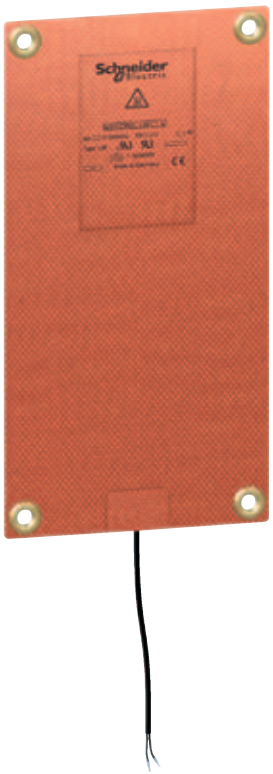

PB502657-24

	Filters		Canopy for ClimaSys CU	Internal deflector	Retrofit panel	
	Plastic filter not recommended for outdoor models.	Metalic filter recommended for outdoor models.	This canopy is highly recommended for harsh indoor environments to protect from ingress of dust.	Deflects the air inside the enclosure.	Panel that enable to mount a new ClimaSys CU units by replacement of old Schneider Electric cooling systems.	
	Polyurethane	Micro-stretched aluminium	Painted zinc coated	Zinc coated	Metal painted	
	Black	-	RAL 7035	RAL 7035	RAL 7035	
	Indoor	Indoor or outdoor	Indoor	Indoor or outdoor	Indoor	
	5 units	1 unit	1 unit	1 unit with fixing elements	1 unit	
						Old Schneider Electric cooling system
	-	-	-	-	-	-
	NSYCUF400	**NSYCUFX400**	**NSYCUCN400HD**	**NSYCUD400**	**NSYCURFT400**	**NSYCU240W230VL** **NSYCU370W230VL**
	NSYCUF600	**NSYCUFX600**	**NSYCUCN600HD**	**NSYCUD600**	-	-
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD800T1K**	**NSYCURFT800T1K**	**NSYCU760W230VL**
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD800T1K**	**NSYCURFT800T1K**	**NSYCUE1100W230L**
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD1K2T2K**	**NSYCURFT800T1K**	**NSYCU1050W230VL**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCUE1400W230L** **NSYCU1650W230VL**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCUE1400W400L**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCU1800W400VL** **NSYCUE1800W400L**
	NSYCUF3KT4K	**NSYCUFX3KT4K**	**NSYCUCN3KT4KHD**	**NSYCUD3KT4K**	**NSYCURFT3KT4K**	**NSYCU2500W400VL**
	NSYCUF3KT4K	**NSYCUFX3KT4K**	**NSYCUCN3KT4KHD**	**NSYCUD3KT4K**	**NSYCURFT3KT4K**	**NSYCU4000W400VL**
	NSYCUF6K	**NSYCUFX6K**	-	-	-	-
	NSYCUF6K	**NSYCUFX6K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF15K	**NSYCUFX15K**	-	-	-	-
	NSYCUF15K	**NSYCUFX15K**	-	-	-	-
	NSYCUF400R	**NSYCUFX400R**	-	-	-	-
	NSYCUF800R	**NSYCUFX800R**	-	-	**NSYCURFT800R**	**NSYCU760W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCU1050W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCUE1400W230R** **NSYCU1460W230VR** **NSYCU1650W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCUE1800W400R** **NSYCU2000W400VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	-	-
	NSYCUF3KT4KR	**NSYCUFX3KT4KR**	-	-	**NSYCURFT3K**	**NSYCU2450W400VR** **NSYCU3100W400VR**
	NSYCUF3KT4KR	**NSYCUFX3KT4KR**	-	-	-	-
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1100W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1100W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1500W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1500W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2200W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2200W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W400S**

Thermal management system
Introduction

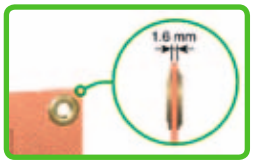
> Ultra thin resistance heaters have been designed to resolve condensation problems in the most complex installations.
Is your enclosure short of space?
Does your mounting plate make it impossible to install a conventional resistor?
Do you not want to take out the equipment?
Discover the benefits of this new offer and its numerous mounting solutions.

PB502042-40

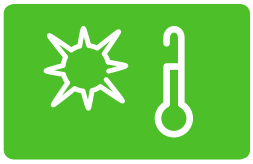


Ultra thin resistance heaters

PB502437-32



Small size (thickness = 1.6 mm)
The space saving available for the equipment compared with a conventional resistor can be up to 30%.



Heat and safety
The heat is distributed over the whole surface and does not exceed 70°C. This temperature allows devices next to the heater to be handled safely.

PB502046-22



Multiple options for fixing
Innovative quick-fixing system using Velcro pads (no need for a tool!) or with basic fixing accessories (screw + spacer). These systems make it easy to move the heater if necessary.

PB502522-16



Numerous positions for installation
These heaters are so slim and flexible they can be installed in a variety of positions:
- Vertically on side panels
- On the mounting plate.



Energy efficiency
Ultra thin resistance heaters are ohmic: they therefore have a low starting current.

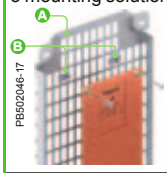


No interference emissions
These resistors can be installed near electronic equipment to guarantee optimum heat.

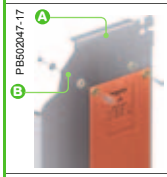
Thermal management system
Characteristics and selection guide

Ultra thin resistance heaters

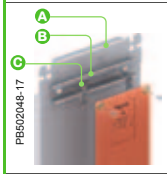
Description	Flexible, ultra thin resistance heaters to be installed inside the enclosure
Material	Silicon reinforced with fibreglass
Colour	Red (heaters), black (wires)
Certifications	VDE, LR
Installation	5 mounting solutions :



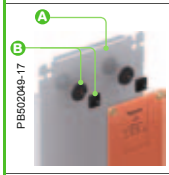
1 - On a Telequick mounting plate
A: Telequick mounting plate, **ref. NSYMR●●●●**
B: Telequick nuts, **ref. AF1EA●**, supplied with the mounting kit



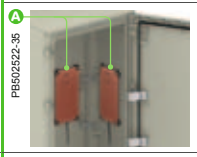
2 - On plain or micro-perforated mounting plate with fixing hardware
A: Mounting plate, **ref. NSYMM●●●●**
B: Fixing hardware included in the mounting kit



3 - On DIN rail
A: Mounting plate, **ref. NSYMM●●●●**
B: Symmetrical DIN rail, **ref. NSYSDR●●●●**
C: Clip-on nuts, **ref. AF1CG●**, supplied with the mounting kit

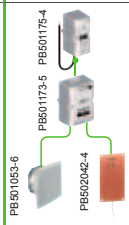


4 - On plain mounting plate with selfadhesive Velcro pads
A: Mounting plate, **ref. NSYMM●●●●**
B: Self-adhesive Velcro pad and plastic fixings supplied with the mounting kit

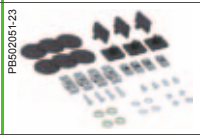


5 - On wall with self-adhesive Velcro pads
A: Self-adhesive Velcro pads and plastic fixings supplied in the mounting kit

Other characteristics	Electrical circuit diagram



Supply	■ 6 self-adhesive Velcro pads ■ 6 plastic fixings ■ 4 Telequick nuts ■ 4 clip-on nuts ■ Fixing hardware



Ultra thin resistance heaters*

Power (W)	Voltage (V)	Inrush current (A)	Height (mm)	Width (mm)	Depth (mm)	References
10	120	0.08	130	250	1.6	**NSYCRS10W120V**
	240	0.04	130	250	1.6	**NSYCRS10W240V**
25	120	0.21	130	250	1.6	**NSYCRS25W120V**
	240	0.10	130	250	1.6	**NSYCRS25W240V**
50	120	0.42	200	320	1.6	**NSYCRS50W120V**
	240	0.21	200	320	1.6	**NSYCRS50W240V**
100	120	0.83	280	450	1.6	**NSYCRS100W120V**
	240	0.42	280	450	1.6	**NSYCRS100W240V**
200	120	1.67	400	650	1.6	**NSYCRS200W120V**
	240	0.83	400	650	1.6	**NSYCRS200W240V**

** Ultra thin resistance heaters can be manufactured with different dimensions and power ratings than those indicated above. Please contact us.*

Thermal management system
Introduction

> The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.

DB300452-43



PB501026-36



PB501027-36



PB501144-29

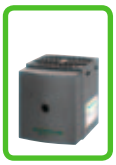


Insulated PTC heaters

PB501027-20



PB501029-18



Large range of power levels
- 2 versions: by natural convection and with fan.
- AC or DC power supply.
- 7 power levels, from 10 W to 550 W.

PB501138-18



Innovating design

PB501140-19



PB501139-24



Easy installation and connection
- Reduced dimensions.
- Quick electric connection by terminal board.
- No maintenance required.
- Direct clipping onto a 35 mm DIN rail.

PB501026-14



PB501141-19



Safety
- The protection prevents direct contact with the aluminium radiator.
- Electric protection device with terminal block cover.
- Equipped with a PTC-type heater.
- Surface temperature lower than 70°C.

High thermal efficiency
- The configuration of the aluminium profile produces a "chimney" effect: high natural convection.
- Low power consumption thanks to self-control of the PTC-type heater.

PB501142-17



Models with fan
- The heaters equipped with a fan ensure circulation of the air and a uniform temperature inside the enclosure.
- High-flow, silent fan.

DB123816-12



PB501143



Certifications
- CE marking.
- Range compliant with UL and VDE.

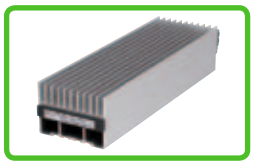
Thermal management system
Introduction

PB501145-67



Aluminium PTC heaters

PB501146-28



Resistance heaters equipped with a PTC-type sensor

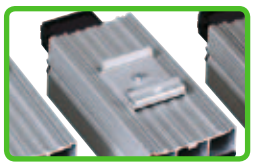
The resistance heaters for electrical and electronic enclosures are equipped with PTC-type heating devices (Positive Temperature Coefficient).
Thanks to these heaters:

- The surface temperature stabilises at 75°C when the ambient temperature is -5°C.
- Power consumption is reduced.

Improved convection

The design of the profile of the resistance heaters produces a "chimney" effect, leading to increased natural convection and maintaining an even temperature inside the enclosure.

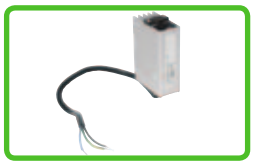
PB501147-111



Quick fixing

The resistance heaters are fixed by means of fixing clips to a 35 mm DIN rail.

PB501148-21



Connection cables

The 10 and 20 W heaters are equipped with a 2 x 0.75 x 300 mm power cord.

PB501149-28



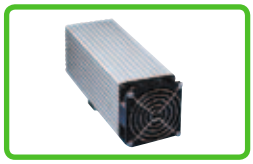
Connection terminal boards

Heaters with a power of more than 20 W are equipped with a connection terminal board.

Large range of power levels

8 power levels, from 10 W to 400 W.

PB501025-28



Models with fan

Models of 250 to 400 W with fan.

Thermal management system
Characteristics

Insulated PTC resistance heaters

Characteristics

Material

Conditions of use

Ingress protection rating

Certifications

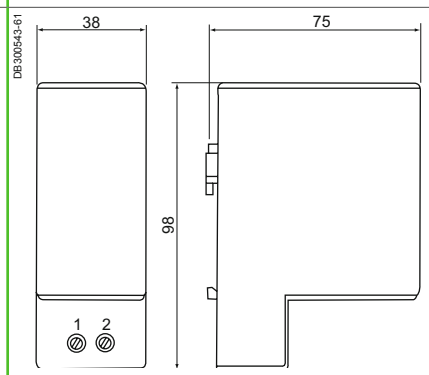
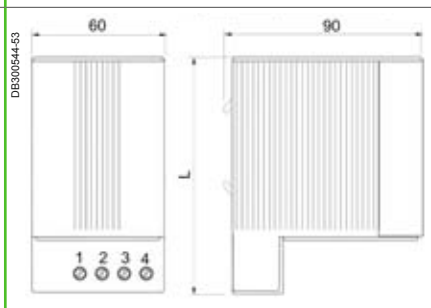
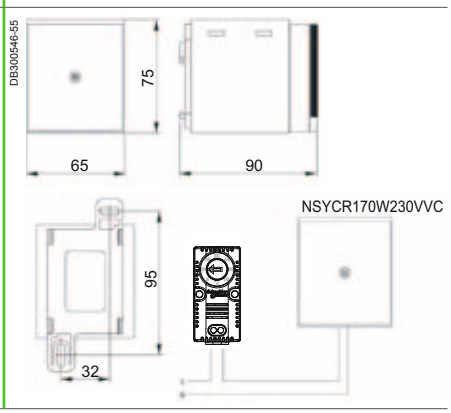
Power at 0°C	Voltage	Surface temperature	Electric connection	Mounting
10 W	12-24 V DC	<70°C, except for the top protection grille	2 poles, 2.5 mm²	Quick by clip on a 35-mm DIN rail
10 W	110-250 V AC			
20 W	12-24 V DC			
20 W	110-250 V AC			
55 W	12-24 V DC	<70°C, except for the top protection grille	4 poles, 2.5 mm²	By clip on a 35-mm DIN rail
55 W	110-250 V AC			
55 W	270-420 V AC			
100 W	12-24 V DC			
100 W	110-250 V AC			
100 W	270-420 V AC			
147 W	12-24 V DC			
147 W	110-250 V AC			
177 W	230 V AC / 50-60 HZ	Max. 50°C in the enclosure, 100°C on the top protection grille, (for an ambient temperature of 20°C / 68°F)	2 poles, 2.5 mm²	By clip on a 35-mm DIN rail

Thermal management system
Characteristics



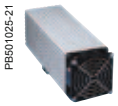




	Insulated PTC heater		Insulated ventilated PTC heaters
	■ Compact resistance heater preventing the formation of condensation or frost. ■ Designed to ensure good natural convection and high thermal efficiency.		
	Extruded aluminium body		
	■ The heaters must be installed with a thermal controller (see selection table on pages 546 and 547) to control the temperature or the humidity inside the enclosure ■ The enclosure must be sealed to prevent the entry of air from the outside ■ An electrical protection device must be installed on the supply side of the unit ■ **Operating position:** vertical ■ **Operating temperature:** -40…+70°C; -10…+158°F		
	IP20		
	VDE and UL **Cover:** UL 94 V-0 plastic Class II (double insulated)		
	References		
	NSYCR10WU1C	-	-
	NSYCR10WU2C	-	-
	NSYCR20WU1C	-	-
	NSYCR20WU2C	-	-
	-	**NSYCR50WU1C**	-
	-	**NSYCR50WU2C**	-
	-	**NSYCR50WU3C**	-
	-	**NSYCR100WU1C**	-
	-	**NSYCR100WU2C**	-
	-	**NSYCR100WU3C**	-
	-	**NSYCR150WU1C**	-
	-	**NSYCR150WU2C**	-
	-	-	**NSYCR170W230VVC**
			

Aluminium PTC heaters







NSYCRS200W230V

Characteristics		Aluminium PTC heaters	Resistive heaters with fan
		■ Extruded aluminium body. ■ Surface temperature limited to 75°C when the ambient temperature is -5°C. ■ Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.	
Conditions of use		■ The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure ■ The enclosure must be sealed to prevent the entry of air from the outside ■ An electrical protection device must be installed on the supply side of the unit	
Power (W)	**Voltage (V)**	**References**	
Power cord			
10	12-24 DC	**NSYCR10WU1**	-
	110-250 AC	**NSYCR10WU2**	-
20	12-24 DC	**NSYCR20WU1**	-
	110-250 AC	**NSYCR20WU2**	-
Terminal block			
20	270-420 AC	**NSYCR20WU3**	-
55	12-24 DC	**NSYCR55WU1**	-
	110-250 AC	**NSYCR55WU2**	-
	270-420 AC	**NSYCR55WU3**	-
90	12-24 DC	**NSYCR100WU1**	-
	110-250 AC	**NSYCR100WU2**	-
	270-420 AC	**NSYCR100WU3**	-
150	12-24 DC	**NSYCR150WU1**	-
	110-250 AC	**NSYCR150WU2**	-
	270-420 AC	**NSYCR150WU3**	-
250	115 AC	-	**NSYCR250W115VV**
	230 AC	-	**NSYCR250W230VV**
400	115 AC	-	**NSYCR400W115VV**
	230 AC	-	**NSYCR400W230VV**
200	115 AC	-	**NSYCRS200W115V**
	230 AC	-	**NSYCRS200W230V**

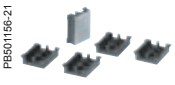
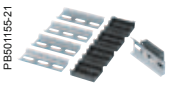
Thermofan



NSYCRP1W230VTVC

Characteristics		Thermofan
		■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure. ■ Fixing by clip on a DIN rail. ■ Thermostat adjustable from 0…+60°C. ■ Visual operation indicator.
Power (W)	**Voltage (V)**	**References**
Terminal block		
400/550	120 AC	**NSYCRP1W120VTVC**
	230 AC	**NSYCRP1W230VTVC**

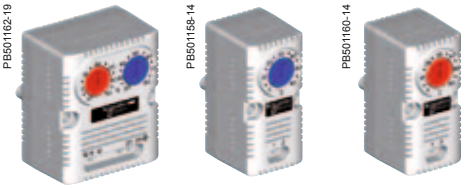
Fixing accessories

Description		Supply	References
		Set of 5 studs	**NSYCRAF**
		Set of 5 studs and DIN rail	**NSYCRAFD**

Thermal management system
Introduction

> Mechanical thermostats

PB501162-19 PB501158-14 PB501160-14



> Electronic thermostats

PB502624-16 PB502623-17 PB502513-16



Thermal control

PB501163-13 PB501170-12



Mechanical and electronic thermostats
- Large range of temperature control.
- Small dimensions.
- Easily accessible terminals.

PB502624-75



New

LED screen
Screen visible even in the dark.

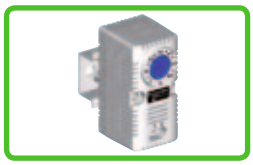


New

New operational temperature range
-40°C ... +80°C.

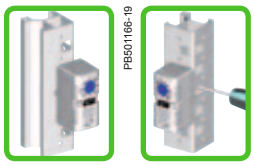
Mechanical and electronic thermostats

PB501164-13



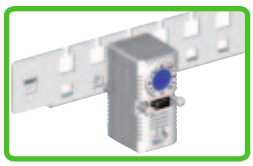
The new quick-fixing systems
- On 35 mm DIN rail.

PB501165-11 PB501166-19



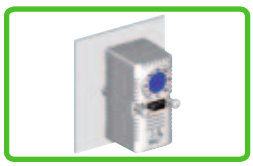
- On Spacial upright.

PB501167-32



- On cross-rail.

PB501168-14



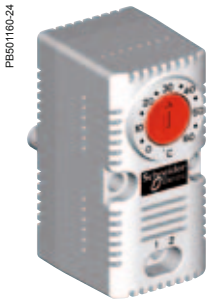
- On mounting plate.

DB123816-26

Certifications and declarations
- UL,
- CE.

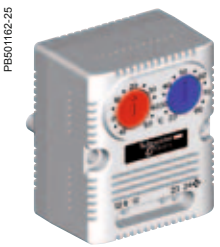
Thermal management system
Characteristics, selection guide

Mechanical thermostats

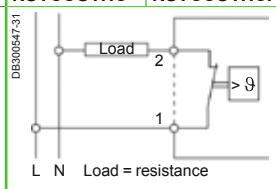


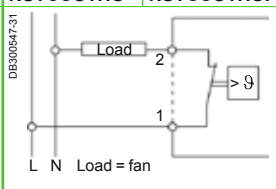


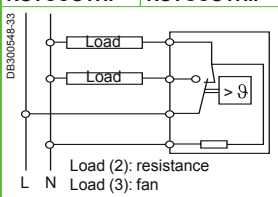


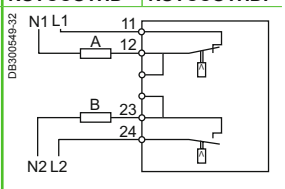


Characteristics	Thermostat	Thermostat	Thermostat	Double Thermostat
	With NC contact	**With NO contact**	**With NO/NC contact**	
	Thermostat with NC Contact: ■ to control the stopping of a resistance heater when the temperature exceeds the displayed value. **Thermostat with NO Contact:** ■ to control the starting up of a fan when the temperature exceeds the displayed maximum value, ■ to control the temperature inside the enclosure by only starting up the fan when necessary, thus increasing the service life of the fan and reducing the clogging of the filter.			
Colour button	Red	Blue	Black	Red and blue
Ingress protection rating	IP20	IP20	IP20	IP20
Sensor element	Bimetal	Bimetal	Bimetal	Bimetal
Contact	NC, forced rupture	NO, forced rupture	Inverse,forced rupture	NO / NC, forced rupture
Contact resistance	< 10 mΩ	< 10 mΩ	< 10 mΩ	< 10 mΩ
Service life	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles
Switching capacity	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) 30 W DC		250 V AC; 10 A (resistive load)	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) 30 W DC
Max interrupting capacity with direct current	NA	NA	250 V AC 4 A (inductive load cos ϕ = 0.6) 30 W DC	NA
Connection	Two 2.5 mm^2 terminals	Two 2.5 mm^2 terminals	Four 2.5 mm^4 terminals	Six 2.5 mm^6 terminals
Mounting	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	Clip on 35 mm DIN rail
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey
Dimensions	60 x 33 x 43 mm	60 x 33 x 43 mm	67 x 50 x 44 mm	60 x 33 x 43 mm
Weight	40 g	40 g	100 g	40 g
Mounting position	Indifferent	Indifferent	Indifferent	Indifferent
Operating temperature	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)
Hysteresis	7°K	7°K	7°K	7°K
Temperature setting range	0...+60°C	0...+60°C	+5...+60°C	0...+60°C
Display	°C / °F	°C / °F	°C / °F	°C / °F
Max. command intensity	10 A 250 V		(NO) 5 A (NC) 10 A	(NO) 5 A (NC) 10 A
References				
	NSYCCOTHC / **NSYCCOTHCF**	**NSYCCOTHO** / **NSYCCOTHOF**	**NSYCCOTHI** / **NSYCCOTHIF**	**NSYCCOTHD** / **NSYCCOTHDF**









Thermal management system
Characteristics, selection guide

New

Electronic thermostats

PB502624

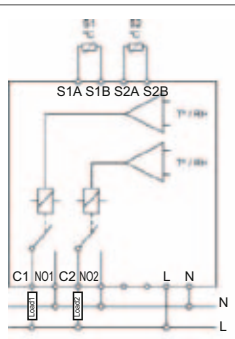
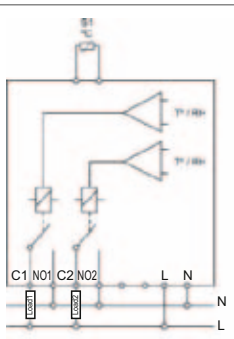
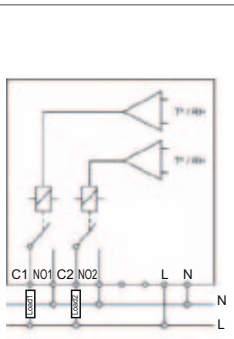


PB502623



PB502513



Characteristics	Electronic thermostat	Electronic hygrotherm	Electronic hygrostat
	With LED screen	**With LED screen**	**With LED screen**
	Electronic temperature controller.	Electronic temperature and humidity controller.	Electronic humidity controller.
Ingress protection rating	IP20	IP20	IP20
Certification	UL / UR	UL / UR	UL / UR
Internal sensor element	Temperature sensor	Temperature sensor and humidity sensor	Humidity sensor
Contact	Free with zero potential	Free with zero potential	Free with zero potential
Connection	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey
Operating temperature	-40°C…+80°C	-40°C…+80°C	-40°C…+80°C
Hysteresis	Programmed 2°K	3 %	3 %
Temperature setting range	-40°C…+80°C	-40°C…+80°C	-
Humidity setting range	-	20 %…80 %	20 %…80 %
Display	°C or °F	°C or °F or % RH	% RH
Max. command intensity	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC
Voltage (type of current)	**References**		
9-30 V (AC/DC)	**NSYCCOTH30VID**	**NSYCCOHYT30VID**	**NSYCCOHY30VID**
110-127 V (AC)	**NSYCCOTH120VID**	**NSYCCOHYT120VID**	**NSYCCOHY120VID**
220-240 V (AC)	**NSYCCOTH230VID**	**NSYCCOHYT230VID**	**NSYCCOHY230VID**
	DB300550EN-80 	DB300551EN-80 	DB300552EN-80 

PB501175-10



Characteristics	External temperature sensor (double insulation)
	■ Sensor operation or reading range: -40°C…+150°C. **Thermostat installation tips:** the thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs. **Hygrostat installation tips:** the hygrostat should be installed at the bottom of the enclosure. 60% RH is the optimum value in the enclosure.
Ingress protection rating	IP67
Fixing	On DIN rail, on Spacial SF profile, on VDI cross-rail, on mounting plate
Length of cable supplied (m)	
3	**NSYCCASTE**

Thermal management system
Method to determine a thermal management solution

Here is a simple method to help you choose a thermal solution. This method does not take into account the humidity level outside the enclosure.

Thermal balance

1 - Characteristics of the enclosure

Position of the enclosure according to IEC 890 ratio		Formula for calculating S (m^2)
	Accessible from every side	S = 1.8 x H x (W + D) + 1.4 x W x D
	Placed against a wall	S = 1.4 x W x (H + D) + 1.8 x D x H
	On the end when suited	S = 1.4 x D x (H + W) + 1.8 x W x H
	On the end when suited, placed against a wall	S = 1.4 x H x (W + D) + 1.4 x W x D
	In the middle when suited	S = 1.8 x W x H + 1.4 x W x D + D x H
	In the middle when suited, placed against a wall	S = 1.4 x W x (H + D) + D x H
	In the middle when suited, placed against a wall with the top covered	S = 1.4 x W x H + 0.7 x W x D + D x H
		S = m²

H = Height - W = Width - D = Depth

Example
Spacial reference **NSYSF20840**
H = 2000
W = 800
D = 400
Installation method:
Suitable enclosure placed against a wall.

S = 4.128 m²

2 - Thermal power dissipated by the operational components

Calculated as the sum of the power dissipated by each of the installed components.
If these are not known, use the ProClima software.

Pd = W

Assume that the switchgear dissipates 800 W.

Pd = 800 W

3 - Temperatures outside the enclosure

Maximum ambient temperature. Te_{max} = °C
Minimum ambient temperature. Te_{min} = °C

The temperature conditions are as follows:
Te_{max} = 35°C
Te_{min} = 15°C

4 - Average desired internal temperatures

They are defined by the nature of the components and the characteristics of the environment air

Maximum internal temperature Tid_{max} = °C
Minimum internal temperature (maximum value between the dew point temperature and the minimum operating temperature of the devices) Tid_{min} = °C

Tid_{max} = 40°C
Tid_{min} = 29°C

5 - Temperature inside the enclosure without thermal management system

Max. internal temperature: $Tfi_{max} = \frac{Pd}{K \times S} + Te_{max}$ Tfi_{max} = °C

Min. internal temperature: $Tfi_{min} = \frac{Pd}{K \times S} + Te_{min}$ Tfi_{min} = °C

or K = 5.5 W/m²/°C for an enclosure made of painted sheet steel
K = 3.5 W/m²/°C for a polyester enclosure
K = 3.7 W/m²/°C for a stainless-steel enclosure

Tfi_{max} = 70°C

Tfi_{min} = 50°C

Calculation of thermal management power (Psyst)

a. Cooling systems:
Psyst = Pd - K x S (Tid_{max} - Te_{max}) = 686 w

b. Resistances:
Electrical installation operating constantly
Psyst = K x S (Tid_{min} - Te_{min}) - Pd

Electrical installation operating discontinuously
Psyst = K x S (Tid_{min} - Te_{min})

Thermal management system
Method to determine a thermal management solution

Choice of solution

1 - Cooling
Condition: Calculated temperature + 5°C > Temperature wanted.

Conditions	Solution	Advantages	Constraints
Cooling			
Temperature wanted in the enclosure at least 5°C higher than the ambient temperature. **$Tid_{max} \geq Te_{min} + 5$ °C**	Oversize the enclosure.	Economical. No maintenance. Easy to implement. IP of the installation maintained.	Relatively small savings. Larger overall dimensions.
	Natural ventilation (installation of ventilation air inlets).	Very economical. No maintenance. Easy, fast installation.	Quantity of heat removed small and dependent on the layout of the components. Deterioration of the IP (ingress of dust).
	Forced ventilation.	Economical. Easy to implement. Large quantity of heat removed. Temperature control possible.	Regular maintenance of filters IP slightly degraded. Ambient temperature ≤ 35°C.
	Air-air exchanger.	Easy to implement. Easy to maintain. IP of the installation maintained. Regulated temperature.	Regular filter maintenance.
Temperature Tid_{max} wanted in the enclosure 5°C less than the ambient temperature Te_{max}. **$Tid_{max} - 5$ °C$\geq Te_{max}$**	Cooling unit.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature.	Regular filter maintenance Ambient temperature ≤ 55°C. Installation of a system for removal of condensation water from the evaporator.
	Air-water exchanger.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature.No filter to be maintained.	Need for a water circuit. Consumption if supplied with town water.

(1) $\text{Flow rate } (m^3/h) = Ø = \frac{Psyst}{(Tid_{max} - Te_{max})} \times 3.1\ (m^3/h)$

(2) $\text{Flow rate } (W/K) = Ø = \frac{Psyst}{(Tid_{max} - Te_{max})\ (W/K)}$

2 - Heating
If the calculated temperature is less than the temperature wanted, the inside of the enclosure must be heated. The solution is to use heating resistors. They can maintain the temperature above the dew point and thus prevent any risk of condensation.
To maintain a uniform temperature inside the enclosure and thus prevent hot spots, Schneider Electric proposes a heating resistor equipped with a fan.

3 - Homogenize
Objective: Prevent hot spots.
Solution: stirring fan.

Technical guides and spare parts

Technical guides and spare parts
Contents

Enclosure certifications 552

International enclosure standard 553

Selection of enclosures 554

Degrees of protection provided by enclosures 555

Classification of electrical equipment enclosures according to NEMA and UL 556

Polyester base coating properties 558

Properties of the plastic materials 560

Description of the marking label affixed to ATEX certified wall-mounting enclosures 562

How to select your enclosures & accessories? 563

Spare parts 564

Enclosure certifications

Product certifications are awarded for enclosures as components.

Aim of the certification						
Range	**International standard for electric power enclosures**	**Standards for industrial equipment and UL classification**	**Marine environment classification or approval for protection and resistance to vibrations**	**ATEX**	**Outdoor Heavy Duty**	**Low-voltage switchgear and controlgear assemblies**
	Standard/Directive					
	IEC 62208	**UL508A and CAN CSA C22-2 no. 14**	**Rules of certifying bodies**	**European directive no. 94/9/EC EN 60079-0 and -7 EN 61241-0 and -1**	**IEC 61439-5 ISO 12.944 IEC 61969-3**	**IEC 61439-1&2**
Spacial						
SF	● ●	●	● ●			
SFHD	● ●	●			●	
SFP						●
SFM						●
SM	● ●	●	●			
S3D	● ●	●	● ● ● ●	● (1)		
S3HD	●	●			●	
S3CM		●				
SBM	●	●	● ● ● ●			
SFX			● (4)			
SMX	●	●	● (4)			
S3X	●	●	●	● (1)		
Thalassa						
PLA	● ●	●	●			
PLAT	● ●					
PLAZ	● ●					
PLATZ	● ●					
PLD	●					
PHD	●	●			●	
PLM	● ●	●	●	● (1)		
PLS	●	● (3)				
TBS/TBP	●	● (2)				
ClimaSys						
CV		●				
CU		●				
CE		●				
CR		●				
CC		●				

(1) ATEX certifications relate to an adapted part of the range. These ranges are distinguished by their EX endings.
(2) Only TBP.
(3) Transparent cover in process.
(4) Only for 1 door versions.

Official certification body										
Bureau Veritas	**LCIE (Bureau Veritas)**	**Bureau Veritas Marine Division**	**TUV Rheiland Group**	**Underwriters Laboratories**	**Laboratorio Oficial J.M. Madariaga**	**Det Norske Veritas**	**Germanischer Lloyd**	**Lloyd´s Register**	**Dekra**	**Asefa**
PB500048	PB500049	PB500048	PB500060	PB500051	PB500052	PB500053	PB500054	PB500055		DB300966
●	●	●	●	●	●	●	●	●	●	●

International enclosure standard
Standards IEC 62208*

PB500056-57



Empty enclosures for low-voltage switchgear and controlgear assemblies. General rules.

Application
For empty enclosures before adding the user's switchgear, in the condition as supplied by the manufacturer.

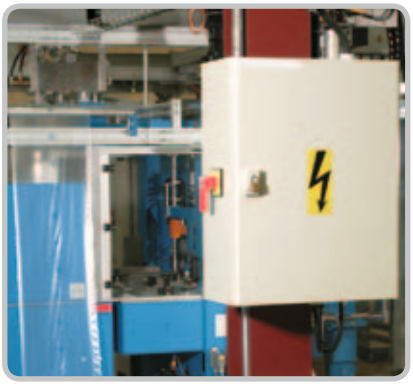
Field of application
Demands for testing the enclosures to be used as part of the switchgear assemblies for voltages of less than 1000 V alternating current and 1500 V direct current.

Information supplied by the manufacturer
- Commercial trademark of the manufacturer: Schneider Electric.
- Mechanical characteristics, materials, conditions for use.
- Conditions for use:

Ambient air temperature for outdoor installations: -25 to +40°C.
- Atmospheric conditions for outdoor installations: the humidity can temporarily reach 100% at a temperature of 25°C.
- Transport and storage conditions: from -25 to +55°C; for limited periods not exceeding 24 h: up to +70°C.

** European standard EN 62208 is identical to IEC 62208. European countries publish this standard according to the body in each country (for example BS EN 62208 in the UK).*

PB500057-57



Standard tests of standard IEC 62208

- Static loads: test 1.25 x maximum admissible load during 1 hour.
- Lifting: applicable to enclosures with lifting accessories.
- Axial loads of metal inserts: 500 N for 10 seconds for M8 inserts.
- IK code: test according to standard IEC 62262 with pendulum impact tester. After testing, the enclosure keeps its IP rating.
- IP rating: test according to standard IEC 60529. Degree of protection against access to dangerous parts and the penetration of solid bodies and against the penetration of water.
- Thermal stability at a temperature of 70 °C: 7 days.
- Resistance to heat: ball test at 70 °C (1).
- Resistance to abnormal heat and to fire: glow wire test according to IEC 60695-2-10 and IEC 60695-2-11 (1).
- Dielectric strength: 5000 V (1).
- Protection circuit continuity (2): resistance not to exceed 0.1 ohm.
- Weather resistance: duration 500 h (cycle: rain 5 minutes + UV lamp 25 minutes).
- Corrosion resistance:
  - For indoor enclosures:
    - 6 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
    - 2 cycles of 24 hours of the salt mist test at 35 °C.
  - For outdoor enclosures:
    - 12 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
    - 14 cycles of 24 hours of the salt mist test at 35 °C.

Our empty enclosures are marked CE according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect regulations in force.

(1) Information required for enclosures made from insulating material.
(2) For metal enclosures.

Selection of enclosures

Selection according to the IP protection degrees

The degrees of protection, explained on the next page, is an important element when selecting the enclosures.
The following table shows the protection degrees of the enclosures.

Name	Range	IP40	IP41	IP42	IP43	IP44	IP54	IP55	IP65	IP66
Metal industrial boxes	Spacial SBM							● (4)		● (4)
Metal derivation boxes	Spacial SDB							●		
Steel wall-mounting enclosures	Spacial S3D							● (1)		●
Steel modular distribution wall-mounting enclosures	Spacial S3DM									●
Terminal wall-mounting enclosures	Spacial S3DB									●
steel wall-mounting enclosures	Spacial S3HF							●		
EMC steel floor-standing enclosures	Spacial SMHF / Spacial SFHF							●		
HMI control enclosures	Spacial S3CM						●			
ATEX steel wall-mounting enclosures	Spacial S3DEX									●
Steel outdoor wall-mounting enclosures	Spacial S3HD									●
Stainless-steel wall-mounting enclosures	Spacial S3X							● (1)		●
ATEX stainless-steel wall-mounting enclosures	Spacial S3XEX									●
Seismic and nuclear enclosures	Spacial S3D6G / Spacial S3D6GK3								●	
Terminal enclosures with FL21 cut-out	Spacial S3DBFL								● (7)	
Steel floor-standing enclosures	Spacial SM							●		
Steel suitable enclosures	Spacial SF							●		
Steel outdoor floor-standing enclosures	Spacial SFHD							●		
Stainless-steel floor-standing enclosures	Spacial SMX							●		
Stainless-steel suitable enclosures	Spacial SFX							●		
Functional steel floor-standing enclosures	Spacial SFP							●		
Steel control desks	Spacial SD							●		
Stainless-steel control desks	Spacial SDX							●		
Thermoplastic industrial boxes	Thalassa TBS-TBP							● (5)		● (6)
Polyester modular boxes	Thalassa PLS								●	
Polyester wall-mounting enclosures	Thalassa PLM									●
Polyester outdoor wall-mounting enclosures	Thalassa PHD								●	
ATEX polyester wall-mounting enclosures	Thalassa PLMEX									●
Polyester floor-standing enclosures	Thalassa PLA (2)					●	●		●	
	Thalassa PLD				●		● (3)			
Polyester outdoor floor-standing enclosures	Thalassa PHD							●		

(1) Double door.
(2) Different IP depending on the version. See introduction in Thalassa section: PLA: IP65, PLAT / PLAZT: IP44, PLAZ / PLAT / PLAZT with grille: IP54.
(3) With gasket.
(4) Different IP depending on the version: Spacial SBM flat box: IP66 - Spacial SBMC FL21 entry box and Spacial SBMB Bus box: IP55.
(5) Button boxes.
(6) Universal boxes.
(7) With membrane mounted.

The universal offer

> 3 Material solutions

Steel

Stainless-steel

Plastic & Polyester

Selection according to the environment

The location of the enclosures and the physical, chemical and climatic conditions to which they are exposed will determine the model to be used.

- Steel enclosures are particularly well suited to indoor use in industrial environments.
- Stainless-steel enclosures are particularly well suited to corrosive environments or areas where specific hygiene demands are applicable.
- Polyester enclosures are particularly well suited to severe corrosive atmospheres, indoors or outdoors.

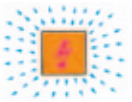
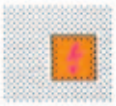
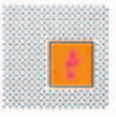
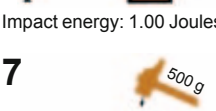
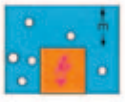
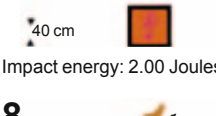
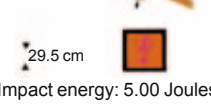
Enclosures made from insulating materials guarantee total insulation, reducing electric hazards for persons.
The main characteristics of the plastic materials of our enclosures and their chemical strength are given on page 560.

Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page 557.

Degrees of protection provided by enclosures

■ The degrees of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK).
■ Degrees of protection are indicated by the letters IP followed by two characteristic numerals. The numerals show the degree of protection offered by the enclosure against access to dangerous parts, the penetration of of solid bodies (1st numeral), and against the penetration of liquids (2nd numeral).
■ The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

Note: *Many EN European standards are harmonised with international IEC standards.*
This is the case with enclosure protection standards:
- EN 60529 = IEC 60529.
- EN 62262 = IEC 62262.

	IP	IK
First numeral Protection against solid bodies	**Second numeral** Protection against liquids	Mechanical protection
0 No protection	**0** No protection	**0** No protection
1  Protected against solid bodies larger than 50 mm (e.g.: incidental contact with the hand)	**1**  Protected against vertically falling water droplets (condensation)	**1**  Impact energy: 0.150 Joules
2  Protected against solid bodies larger than 12 mm (e.g.: finger contact)	**2**  Protected against water droplets deflected at up to 15° from vertical	**2**  Impact energy: 0.200 Joules
3  Protected against solid bodies larger than 2.5 mm (tools, wires)	**3**  Protected against rainwater at up to 60° from vertical	**3**  Impact energy: 0.350 Joules
4  Protected against solid bodies larger than 1 mm (fine tools, small wires)	**4**  Protection against water spray from all directions	**4**  Impact energy: 0.500 Joules
5  Protected against dust (no harmful deposits)	**5**  Protected against low-pressure water jets from all directions	**5**  Impact energy: 0.700 Joules
6  Totally dust tight	**6**  Protected against powerful water jets from all directions	**6**  Impact energy: 1.00 Joules
	7  Protected against the effects of immersion	**7**  Impact energy: 2.00 Joules
	8  ... m Protected against prolonged effects of immersion under pressure	**8**  Impact energy: 5.00 Joules
		9  Impact energy: 10.00 Joules
		10  Impact energy: 20.00 Joules

Classification of electrical equipment enclosures according to NEMA and UL

NEMA and UL are standardisation bodies, commonly recognised in North America, which have issued classifications of enclosures according to the protection offered in various environments.
These classifications are similar.
The 1st table below summarises this classification, which does not include potentially explosive areas. The detailed recommendations of this classification are given on the next page.
The 2nd table indicates the classification of our enclosures.
These classifications appear in our UL certifications (see Certification technical annex on page 552).
Certification according to the UL classification guarantees the corresponding NEMA classification by equivalence.

Environment and protection	Classification												
	1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Indoor use	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor use			●	●	●	●	●		●				
Incidental contact with the equipment	●	●	●	●	●	●	●	●	●	●	●	●	●
Dirt	●	●	●	●	●	●	●	●	●	●	●	●	●
Drips and gentle splashes of non-corrosive liquids		●	●	●	●	●	●	●	●	●	●	●	●
Rain, frost* and snow			●	●	●	●	●		●	●			
Frost**					●								
Dust, fibres and particles in suspension			●		●	●	●		●	●	●	●	●
Built-up dust, fibres and particles in suspension			●		●	●	●	●	●	●	●	●	●
Clouds of dust			●		●	●	●		●	●			
Splashes and jets of water						●	●		●	●			
Gentle splashes and leaks of oil or non-corrosive coolants											●	●	●
Drips, splashing and spraying of oil or non-corrosive coolants													●
Corrosive agents							●			●			
Occasional temporary immersion									●	●			
Occasional prolonged immersion										●			

** The operation of the external mechanisms is not required when the enclosure is covered with frost.*
*** The operation of the external mechanisms is required when the enclosure is covered with frost.*

Enclosures		Type of protection (1)												
Name	Range	1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Steel wall-mounting enclosures	S3D (1)	●	● (3)	● (3)	● (3)		● (3)	● (3)	●			●	● (4)	●
	S3HF	●	●	●	●				●			●		●
Steel outdoor wall-mounting enclosures	S3HD	● (3)	● (3)	● (3)	● (3)		● (3)	● (3)	● (3)			● (3)		● (3)
Stainless-steel wall-mounting enclosures	S3X (2)	●	● (3)	● (3)	● (3)		● (3)	● (3)	● (3)			●	● (4)	● (3)
Steel floor-standing enclosures	SM	●	● (3)	● (3)	● (3)		● (3)		● (3)			●	●	●
Polyester outdoor wall-mounting enclosures	PHD	●	●	●	●		● (3)	● (3)	●			●		●
Steel suitable enclosures	SF	●			●							●	●	
Steel outdoor floor-standing enclosures	SFHD	●			●							●	●	
Stainless-steel floor-standing enclosures	SMX	●	● (3)	● (3)	● (3)		● (3)	● (3)	● (3)			●	●	●
Thermoplastic boxes	TBP	●		●		●	●	●				●		
Polyester modular boxes	PLS	●	●	●	●	●	●	●				●		●
Polyester wall-mounting enclosures	PLM	●	●	●	●	●	●	●	●			●	●	●
Polyester floor-standing enclosures	PLA	●	●	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)			●		●

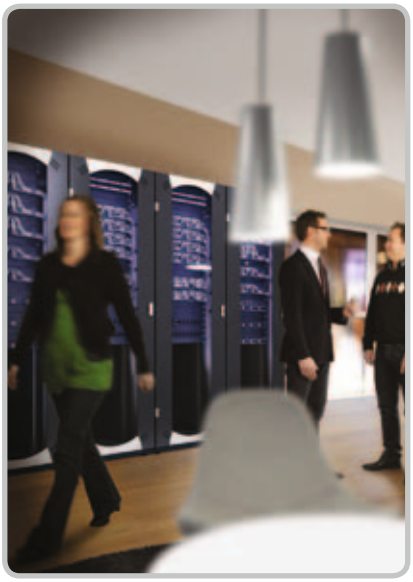
(1) Also S3DM, S3DEX, S57 and S3DC.
(2) Also S3XEX.
(3) 1 door.
(4) 2 doors.

Components		Type of protection (4)												
Name	Range	1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Ventilation system	CV											●	●	
Thermal regulation system	CC											●	●	

(4) In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

Classification of electrical equipment enclosures according to NEMA and UL

PB500063-55



PB5000064-55



The enclosures must protect the equipment against environmental conditions and protect the personnel against the risk of incidental contact with the equipment. The following classifications (Type) are required according to the required uses and prescriptions:

Type	Use	Prescription
1	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt.
2	Indoor use	It provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, drips and gentle splashes of non-corrosive liquids.
3	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown and resists the formation of ice on the outside.
3R	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and resists the formation of ice on the outside.
3S	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and windblown dust. The external mechanism must continue to work even when layers of ice are formed.
4	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes and hose-directed water and resists the formation of frost on the outside.
4x	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes, hose-directed water and resists corrosion and the formation of ice on the outside.
5	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, settling airborne dust, lint, fibres, flyings, drips and gentle splashes of non-corrosive liquids.
6	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed of water, the entry of water during occasional temporary submersion to a limited depth and resists the formation of ice on the outside.
6P	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during prolonged submersion to a limited depth and resists corrosion and the formation of ice on the outside.
12	Indoor use (without knockouts)	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, fluff, fibres, particles in suspension, drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
12K	Indoor use (enclosures with pre-routing)	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
13	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings and the spraying, splashing, and seepage leaks of water, oil or non-corrosive coolants.

Note: *The above recommendations aim to explain the NEMA and UL classifications, but are not the official texts of NEMA or UL.*
The exact definitions provided by the Organisations are those of standards NEMA 250 and UL 50E.

Polyester base coating properties

PB500058-56



Product type

Thermosetting polyester resins based powder coating modified by epoxy resins and designed for decoration and to prevent corrosion.
The performance of this coating is superior to conventional epoxy powders in terms of: colour stability, temperature resistance and weather resistance.
Grey RAL 7035; appearance: structured.

Mechanical properties

Test conditions: steel samples with a thickness of 10/10^{e} mm.
Degreasing using biodegradable surface-active agents.
Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	Class 1
Ericksen stamping	ISO 1520	≥ 7 mm
Direct impact resistance	ISO 6272	> 1 kg/70 cm
Indirect impact resistance	ISO 6272	> 1 kg/20 cm
Bending around conical mandrel	ISO 6860 - ASTM D 522-88	Maximum cracking of 70 mm, without the paint coming loose

Chemical properties

Tests conducted at ambient temperature on phosphated samples covered with a 150 to 200 micron film:

Film intact.

Film attacked (blistering, yellowing, loss of gloss).

Number of months			2	4	6	8	10	12
Acid	Acetic	20 %						
	Sulphuric	30 %						
	Nitric	30 %						
	Phosphoric	30 %						
	Hydrochloric	30 %						
	Lactic	10 %						
	Citric	10 %						
Base	Soda	10 %						
	Ammonia	10 %						
Water	Distilled water							
	Sea water							
	Tap water							
	Diluted chloride bleach							
Solvents	Petrol							
	Higher alcohols							
	Aliphatics							
	Aromatics							
	Ketones-esters							
	Tri-perchlorethylene							

Physical properties

Temperature resistance: -40°C and 100 hours at +150°C (colour: white).
Gloss retention: good.

Resistance to corrosion

Compliance with standard IEC 62208 for outdoor installations: 288 h of humid heat and 336 h of salt mist.

Polyester base coating properties

Nuclear decontamination

Applicable to colours RAL 7035 and AFNOR A550.
Standard NFT 30901. Percentage of decontamination for contamination by fission products. Please consult us for further details.

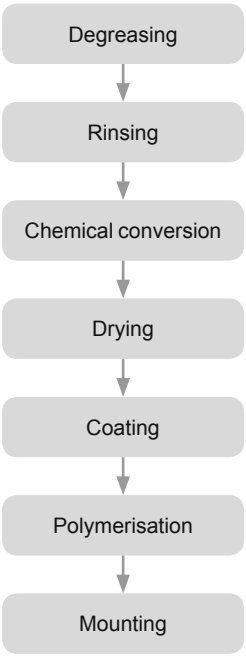
Accelerated aging

Standard IEC 62208: 500 h UV according to ISO 4892 (method A) (adherence of the coating with minimum retention of 50% on the grid according to ISO 2409).

Fire behaviour

Class M1 (self-extinguishing material).
Class M0 (for coating on a metal base).

Manufacturing process



Properties of the plastic materials

Mechanical, electrical, physical and fire-resistance properties

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester reinforced with fibreglass.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Specifications	Standards	Units	ABS	Polycarbonate	PVC	Bayblend®	Polyester	SBS
Mechanical properties								
Tensile strength	ISO 257	MPa	44	> 65	45	35	85	5
Tensile strain	ISO 527	%	12	> 110	120 to 150	40	0	600
Impact resistance	ISO 179	kJ/m²	125	No breakage	25	No breakage	60	No breakage
Notching resistance	ISO 179	kJ/m²	19	25	20	25	50	-
Electrical properties								
Stress point	IEC 60112	-	-	250-300	> 600	> 550	> 600	-
Surface strength	IEC 60093	ohm	1015	> 1015	> 1013	> 1014	≥1012	> 1013
Dielectric strength	IEC 60243	kV/mm	16.5	> 30	30	24	18-20	20
Specific resistivity	IEC 60093	ohm³cm	1015	> 1016	≥ 1015	1016	≥ 1012	> 1016
Physical properties								
Softening temperature (Vicat B)	ISO 306	°C	95	145-150	79-80	115	(1)	80
Temperature resistance	-	°C	-40...+90	-50...+125	-20...+65	-35...+90	-50...+150	-40...+120
Water absorption	ISO 62	%	0.2 - 0.45	0.15	< 0.1	0.2	0.2	-
Specific weight	ISO 1183	kg/dm³	1.04	1.21	1.4	1.12	1.85	0.3 in 24 h
Fire resistance								
Oxygen index	ISO 4589	%	19	26	45-50	22	24.4	18
Glow wire resistance, 2 mm	IEC 60695-2	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2	°C	650	960	960	750	960	NA

(1) No softening of the polyester.

Specifications	Standards	Units	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12
Mechanical properties							
Tensile strength	ISO 257	MPa	30	35	24	40	30
Tensile strain	ISO 527	%	5	400	36	200	300
Impact resistance	ISO 179	kJ/m²	20	20	63	No breakage	No breakage
Notching resistance	ISO 179	kJ/m²	3	5	50	31.2	15
Electrical properties							
Stress point	IEC 60112	-	-	-	KB175	KB175	KB180
Surface strength	IEC 60093	ohm	≥ 1014	-	> 1013	1012	5 x 1010
Dielectric strength	IEC 60243	kV/mm	13-15	20	≤ 40	23	55
Specific resistivity	IEC 60093	ohm³cm	> 1015	> 1016	> 1015	1011	3 x 1011
Physical properties							
Softening temperature (Vicat B)	ISO 306	°C	120-122	75 (vicat A)	79	230	140
Temperature resistance	-	°C	-20...+80	-10...+80	-15...+60	-20...+100	-50...+125
Water absorption	ISO 62	%	< 0.5	0.1 in 24 h	0.1 in 24 h	1.6	1.5
Specific weight	ISO 1183	kg/dm³	1.18	0.91	1.06	1.14	1.03
Fire resistance							
Oxygen index	ISO 4589	%	18.5	18	18	24	22
Glow wire resistance, 2 mm	IEC 60695-2	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2	°C	960	650	650	850	650

Properties of the plastic materials
Resistance to chemical agents

The table shows:
- The concentration of the chemical agent in %; sat = saturation.
- The resistance of the material:
  +: Resistant.
  O: Limited resistance.
  –: Not resistant.

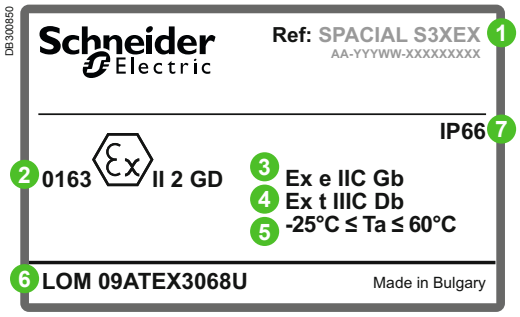
Plastic materials generally used to manufacture our products:
- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Resistance to	ABS		Polycar-bonate		PVC		Bayblend®		Polyester		Altuglas		Polypro-pylene		Poly-styrene		Polyamide 6		Polyamide 12		SBS	
Acetone		–		–		–		–		–		O	100	+		–	100	+		+		+
Hydrochloric acid	15	+	10	+	30	+	20	+	30	+	sat	+	10	+		O	10	–	10	+	10	+
Citric acid			10	+	sat	+	10	+	100	+	sat	+	sat	+		+	10	O		+	10	+
Lactic acid	80	+	10	+	90	+	10	–	100	+	20	+	90	+		O	50 90	O –		+ +	sat	+
Nitric acid	30	+	10 100	+ –	50	+	10	+	20	+ +	10 100	+ –	25/ 50			O	2 10	O –		–	50	+
Phosphoric acid	85	+	100	+	sat	+		+	100	+	10 95	+ –	sat	+		O	2 10	O –	50	+		+
Sulphuric acid	50	+	50 100	+ –	96	+	30	+	70	+	30	+	96	+		O	3	–	10	+	96	+
Alcohol		O	96	+	96	+		–	50	O	50	O	96	+		+	96	O	96	+		+
Pure aniline		O		–	100	–		–		O		–	100	+			100	O	100	O		
Benzene		+	100	–		–		+		–		O	100	O			100	+		+		–
Liquid bromine			100	–		–		–					100	–					100	–		–
Liquid chlorine				–	100	–		–	sat	+		–	100	–			100	O		–	50	+
Sea water		+	100	+	100	+		+	100	+	100	+		–	100	+			100	+	sat	+
Petrol		+	100	+	100	O		–	100	+	100	O		–		–	100	+		+		–
Ether		–	100	O	100	–		–	100	O		+					100	+	100	+		–
Hexane		O		+		O		O		–			100	+			100	+	100	+		–
Oil and greases		+	100	+	100	+		O	100	+	100	O	100	+		–		+	100	+		–
Aromatic hydrocarbon		O		–		–		–		–		+	–			–		–		+		–
Fuel oil		O	100	O	100	+		–	100	+	100	–	100	+			100	+	100	+		–
Naphthalene					100	O		–	100	+	100	–	100	+			100	+	100	+		
Nitrobenzene		–		–	100	–		–				–	100	O				–		O		–
Phenol		–		–	sat	O		–	20	O		–	sat	+				–		–	10	O
Mineral salts				+		+		+		+		+		+						+		+
Iodine solution				O		–		+				–						+				
Toluene		–		–	100	–		–		+		O	100	O		–	100	+	100	+		–
Trichloroethylene		–		–	100	–		–		–		–	100	O		–	100	–	100	O		–
Urea			sat	+	sat	+		+					sat	+			10	+	sat	+	sat	O

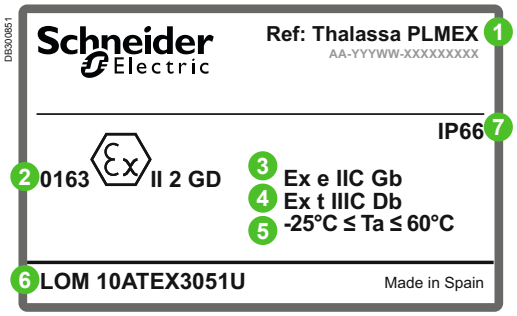
For other chemical agents, please contact us.
All this information is taken from the best sources and provided for information purposes only, with no commitment on our behalf.

Description of the marking label affixed to ATEX certified wall-mounting enclosures

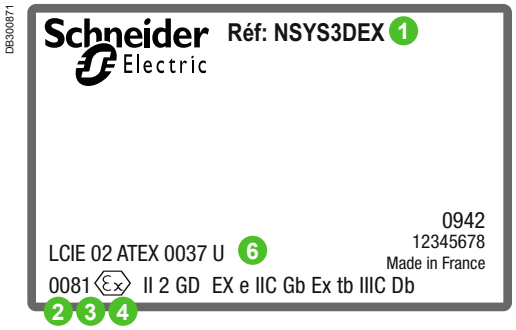
Spacial S3XEX



Thalassa PLMEX



Spacial S3DEX



1 Product range

2
- **0163:** identification No. of the notified body for application of the ATEX directive.
- **:** distinctive Community mark indicating that the product is authorized in explosive atmospheres.
- **II:** industry Group (II = surface industry).
- **2:** equipment category (2 = occasional presence, Zone 1 or 21).
- **GD:** type of atmosphere (G= Gas and vapour or mist, D= Dust).

3
- **Ex:** symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.
- **e:** protection method used: e = enhanced safety (EN 60079-7).
- **IIC:** gas group (hydrogen/acetylene).
- **Gb:** protection method for non-electric equipment (check on power supply source). **G =** gas.

4
- **Ex:** symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.
- **t:** protection method used: t = protection by enclosure (EN 60079-31).
- **IIIC:** dust group (conductive dust).
- **Db:** protection method for non-electric equipment (check on power supply source). **D =** dust.

5 **Ta:** ambient temperature.

6 Name of the certification body + No. of the CE type certificate.

7 **IP66:** degree of intrusion protection..

Download our ATEX certificates from our site.

How to select your enclosures & accessories?

Environment	
In what type of environment will you be installing your products?	■ Indoor industrial environments, use steel. ■ Indoor corrosive environments or with specific hygienic demands, use stainless-steel. ■ Severe corrosive environments, indoor or outdoor, use polyester enclosures. ■ Always think about the thermal issue. We have the right solution.
Is a canopy required?	A canopy is mandatory when liquid can fall on an enclosure. Our polyester enclosures (PLM and PLAT) are pre-equipped.
Technical requirements	
Are tightness and resistance to external mechanical impact needed in your case?	Each enclosure specifies its: ■ Tightness: IP. ■ Resistance to external mechanical impact: IK.
Have you any size-related installation constraints?	Check the dimensions of the enclosure: Height (H) x Width (W) x Depth (D) in mm.
What colours are available?	RAL 7035 is our standard on steel enclosures. Other colours are available on demand.
How do you install your enclosures?	Installation possible: ■ On a wall. ■ On the floor. ■ On a post. Available accessories: ■ Fixing lugs. ■ Plinths. ■ Post fixing devices. ■ Reinforcement for heavy load.
Door	
Need to see inside the enclosure?	Choice of: ■ Glazed doors. ■ Acrylic windows. ■ Control protection frames.
What type of lock do you want?	The type of lock is to be specified: ■ Inserts. ■ Keys. ■ Padlocks.
Do you need an earth connection?	Electrical continuity by earthing braids or leads available as accessories.
How will you mount your raceways to the door? On the uprights? On the rails?	They can be fixed thanks to: ■ Cable-duct supports. ■ Door cross-rails. ■ Cable ties.
Are doors opened for maintenance?	You may need: ■ Door stops. ■ Door switches.
Body or frame	
Where do the cables enter the enclosure from?	A large variety of cable entries available.
What functions should this cable-entry provide?	Our cable glands or membranes provide: ■ Thightness. ■ Cable supports.
Mounting accessories	
How will the equipment be installed inside your enclosure?	Several mounting plates according to your application: ■ Plain. ■ Micro-perforated (Telequick System). ■ Perforated (Telequick System). ■ Modular. ■ 19”.
Do you require cable accessories?	■ Cable ducts. ■ Cable cross rails. ■ Cable supports… … are available, see our catalogue for more details.
Thermal	
Do you need to cool? Heat? Dry?	■ Ventilation louvers. ■ Ventilation grilles. ■ Forced ventilations. ■ Resistance heaters. ■ Thermostats. ■ Calculations with ClimaSys software. Refer to our **Thermal Control** section.
Logistics and handling	
How do you handle the enclosures?	**Thanks to eyebolts and lifting brackets.**

Spare parts
Selection table

Steel industrial boxes

PB503351-20



SBM	
Description	**References**
Accessories	
Bag of acces. SBM boxes 4 screws	**NSYSBMABS4**
Bag of acces. SBM boxes 6 screws	**NSYSBMABS6**

Steel wall-mounting enclosures

PB500199-30



S3D	
Description	**References**
Doors	
Plain door 300 x 200	**NSYDS3D32**
Plain door 300 x 250	**NSYDS3D325**
Plain door 300 x 300	**NSYDS3D33**
Plain door 300 x 400	**NSYDS3D34**
Plain door 400 x 300	**NSYDS3D43**
Plain door 400 x 400	**NSYDS3D44**
Plain door 400 x 600	**NSYDS3D46**
Plain door 500 x 300	**NSYDS3D53**
Plain door 500 x 400	**NSYDS3D54**
Plain door 500 x 500	**NSYDS3D55**
Plain door 600 x 400	**NSYDS3D64**
Plain door 600 x 500	**NSYDS3D65**
Plain door 600 x 600	**NSYDS3D66**
Plain door 600 x 800	**NSYDS3D68**
Plain door 700 x 500	**NSYDS3D75**
Plain door 800 x 600	**NSYDS3D86**
Plain door 800 x 800	**NSYDS3D88**
Plain door 800 x 1000	**NSYDS3D810**
Plain door 800 x 500 right	**NSYDS3D85R**
Plain door 800 x 500 left	**NSYDS3D85L**
Plain door 800 x 600 right	**NSYDS3D86R**
Plain door 800 x 600 left	**NSYDS3D86L**
Plain door 1000 x 600	**NSYDS3D106**
Plain door 1000 x 800	**NSYDS3D108**
Plain door 1000 x 1000	**NSYDS3D1010**
Plain door 1200 x 1000	**NSYDS3D1210**
Plain door 1000 x 500 right	**NSYDS3D105R**
Plain door 1000 x 500 left	**NSYDS3D105L**
Plain door 1000 x 600 right	**NSYDS3D106R**
Plain door 1000 x 600 left	**NSYDS3D106L**
Plain door 1200 x 600	**NSYDS3D126**
Plain door 1200 x 800	**NSYDS3D128**
Plain door 1200 x 500 right	**NSYDS3D125R**
Plain door 1200 x 500 left	**NSYDS3D125L**
Plain door 1200 x 600 right	**NSYDS3D126R**
Plain door 1200 x 600 left	**NSYDS3D126L**
Plain door 1400 x 500 right	**NSYDS3D145R**
Plain door 1400 x 500 left	**NSYDS3D145L**
Glazed door 300 x 250	**NSYDS3D325T**
Glazed door 300 x 300	**NSYDS3D33T**
Glazed door 300 x 400	**NSYDS3D34T**
Glazed door 300 x 600	**NSYDS3D36T**
Glazed door 400 x 300	**NSYDS3D43T**
Glazed door 400 x 400	**NSYDS3D44T**
Glazed door 400 x 600	**NSYDS3D46T**
Glazed door 500 x 300	**NSYDS3D53T**
Glazed door 500 x 400	**NSYDS3D54T**

Description	References
Glazed door 500 x 500	**NSYDS3D55T**
Glazed door 500 x 600	**NSYDS3D56T**
Glazed door 600 x 400	**NSYDS3D64T**
Glazed door 600 x 500	**NSYDS3D65T**
Glazed door 600 x 600	**NSYDS3D66T**
Glazed door 600 x 800	**NSYDS3D68T**
Glazed door 700 x 500	**NSYDS3D75T**
Glazed door 700 x 600	**NSYDS3D76T**
Glazed door 800 x 600	**NSYDS3D86T**
Glazed door 800 x 800	**NSYDS3D88T**
Glazed door 1000 x 600	**NSYDS3D106T**
Glazed door 1000 x 800	**NSYDS3D108T**
Glazed door 1000 x 1000	**NSYDS3D1010T**
Glazed door 1200 x 600	**NSYDS3D126T**
Glazed door 1200 x 800	**NSYDS3D128T**
Glazed door 1200 x 1000	**NSYDS3D1210T**
Glazed door 1000 x 500 right	**NSYDS3D105TR**
Glazed door 1000 x 500 left	**NSYDS3D105TL**
Glazed door 1200 x 500 right	**NSYDS3D125TR**
Glazed door 1200 x 500 left	**NSYDS3D125TL**
Door accessories	
Gasket double door encl.	**NSYGDD**
Set of 5 taps and latches	**NSYS3DTL**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware	
100 screws cable gland plate	**NSYS3DCGSB**
Standard screw bag cable gland plate	**NSYS3DCGPSTDSB**
Locking accessories	
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
Lock + standard key DB3 neutral	**NSYAEDLS3DRLN**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
3 point lock linkage H 1400 mm	**NSYBTAS3D140**
Lock with key type 3131A	**NSYAEDL3131AS3D**
3 point lock linkage (H = 650 mm)	**NSYBTAS3D65**
3 point lock linkage (H = 900 mm)	**NSYBTAS3D90**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

To find out more about our spare parts offer, visit our website at www.schneider-electric.com

Spare parts
Selection table

Steel wall-mounting enclosures


PB500097-29

S3DM

Description	References
Doors	
Glazed door 400 x 300	**NSYDS3D43T**
Glazed door 500 x 400	**NSYDS3D54T**
Glazed door 600 x 400	**NSYDS3D64T**
Glazed door 600 x 600	**NSYDS3D66T**
Glazed door 700 x 500	**NSYDS3D75T**
Glazed door 800 x 600	**NSYDS3D86T**
Glazed door 1000 x 600	**NSYDS3D106T**
Glazed door 1000 x 800	**NSYDS3D108T**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware	
100 screws cable gland plate	**NSYS3DCGSB**
Standard screw bag cable gland plate	**NSYS3DCGPSTDSB**

Description	References
Locking accessories	
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

S3DC

Description	References
Doors	
Plain door 300 x 200	**NSYDS3DC32**
Plain door 300 x 300	**NSYDS3DC33**
Plain door 400 x 300	**NSYDS3DC43**
Plain door 400 x 400	**NSYDS3DC44**
Plain door 500 x 400	**NSYDS3DC54**
Plain door 500 x 500	**NSYDS3DC55**
Plain door 600 x 400	**NSYDS3DC64**
Plain door 600 x 600	**NSYDS3DC66**
Plain door 700 x 500	**NSYDS3DC75**
Plain door 800 x 600	**NSYDS3DC86**
Plain door 800 x 800	**NSYDS3DC88**
Plain door 1000 x 600	**NSYDS3DC106**
Plain door 1000 x 800	**NSYDS3DC108**
Plain door 1000 x 1000	**NSYDS3DC1010**
Plain door 1200 x 800	**NSYDS3DC128**
Plain door 1200 x 1000	**NSYDS3DC1210**

Description	References
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	
Set of 10 linkage guides	**NSYS3DLG**
Standard lock enclosures	**NSYAEDLS3DC**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

S3DCD

Description	References
Doors	
Plain door 500 x 500	**NSYDS3DCD55**
Plain door 600 x 600	**NSYDS3DCD66**
Plain door 700 x 500	**NSYDS3DCD75**
Plain door 800 x 600	**NSYDS3DCD86**
Plain door 1000 x 600	**NSYDS3DCD106**
Plain door 1000 x 800	**NSYDS3DCD108**
Plain door 1000 x 1000	**NSYDS3DCD1010**
Plain door 1200 x 1000	**NSYDS3DCD1210**

Description	References
Locking accessories	
Standard lock enclosures	**NSYAEDLS3DC**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

S3DB

Description	References
Doors	
Plain door 250 x 300	**NSYDS3DB2530**
Plain door 250 x 400	**NSYDS3DB2540**
Plain door 250 x 500	**NSYDS3DB2550**
Plain door 300 x 300	**NSYDS3DB33**
Plain door 300 x 400	**NSYDS3DB34**
Plain door 300 x 500	**NSYDS3DB35**
Plain door 300 x 600	**NSYDS3DB36**
Plain door 400 x 300	**NSYDS3DB43**
Plain door 400 x 800	**NSYDS3DB48**
Plain door 500 x 400	**NSYDS3DB54**
Plain door 600 x 400	**NSYDS3DB64**

Description	References
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	
Standard key DB3	**NSYAEDLS3DKDB3**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

Spare parts
Selection table

Steel wall-mounting enclosures

PB500369-31



CRN

Description	References
Doors	
Glazed door H 300 x W 250	**NSYDCRN3025T**
Glazed door H 300 x W 300	**NSYDCRN33T**
Glazed door H 300 x W 400	**NSYDCRN34T**
Glazed door H 400 x W 300	**NSYDCRN43T**
Glazed door H 400 x W 400	**NSYDCRN44T**
Glazed door H 400 x W 600	**NSYDCRN46T**
Glazed door H 500 x W 400	**NSYDCRN54T**
Glazed door H 500 x W 500	**NSYDCRN55T**
Glazed door H 600 x W 400	**NSYDCRN64T**
Glazed door H 600 x W 500	**NSYDCRN65T**
Glazed door H 600 x W 600	**NSYDCRN66T**
Glazed door H 600 x W 800	**NSYDCRN68T**
Glazed door H 700 x W 500	**NSYDCRN75T**
Glazed door H 800 x W 600	**NSYDCRN86T**
Glazed door H 800 x W 800	**NSYDCRN88T**
Glazed door H 1000 x W 600	**NSYDCRN106T**
Glazed door H 1000 x W 800	**NSYDCRN108T**
Plain door H 200 x W 200	**NSYDCRN22**
Plain door H 200 x W 300	**NSYDCRN23**
Plain door H 250 x W 200	**NSYDCRN2520**
Plain door H 300 x W 250	**NSYDCRN3025**
Plain door H 300 x W 300	**NSYDCRN33**
Plain door H 300 x W 400	**NSYDCRN34**
Plain door H 300 x W 450	**NSYDCRN3045**
Plain door H 400 x W 300	**NSYDCRN43**
Plain door H 400 x W 400	**NSYDCRN44**
Plain door H 400 x W 600	**NSYDCRN46**

Description	References
Plain door H 500 x W 400	**NSYDCRN54**
Plain door H 500 x W 500	**NSYDCRN55**
Plain door H 600 x W 400	**NSYDCRN64**
Plain door H 600 x W 500	**NSYDCRN65**
Plain door H 600 x W 600	**NSYDCRN66**
Plain door H 600 x W 800	**NSYDCRN68**
Plain door H 700 x W 500	**NSYDCRN75**
Plain door H 800 x W 600	**NSYDCRN86**
Plain door H 800 x W 800	**NSYDCRN88**
Plain door H 1000 x W 600	**NSYDCRN106**
Plain door H 1000 x W 800	**NSYDCRN108**
Door accessories	
Standard Spacial hinge	**NSYBICRN**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	
TCRE1 Lock	**NSYTCRE1**
TCRE12 Lock	**NSYTCRE12**
Panels	
Set of 50 back plugs WM	**NSYSWMBP**
Fixing hardware	
Screw bag for CRN cable gland-plate	**NSYCRNCGPSTDSB**
Sealing	
Adhesive sealing gasket 18 x 10 2M	**NSYADG2M**
Adhesive sealing gasket 18 x 10 3M	**NSYADG3M**
Adhesive sealing gasket 18 x 10 5M	**NSYADG5M**
Adhesive sealing gasket 18 x 10 20M	**NSYADG20M**

PB500373-30



CRNG

Description	References
Doors	
Plain door H 800 x W 600	**NSYDCRNG86**
Plain door left H 800 x W 500	**NSYDCRNG85L**
Plain door right H 800 x W 500	**NSYDCRNG85R**
Plain door left H 800 x W 600	**NSYDCRNG86L**
Plain door right H 800 x W 600	**NSYDCRNG86R**
Plain door H 1000 x W 600	**NSYDCRNG106**
Plain door H 1000 x W 800	**NSYDCRNG108**
Plain door left H 1000 x W 500	**NSYDCRNG105L**
Plain door right H 1000 x W 500	**NSYDCRNG105R**
Plain door right H 1000 x W 600	**NSYDCRNG106R**
Plain door left H 1000 x W 600	**NSYDCRNG106L**
Plain door right H 1000 x W 600	**NSYDCRNG106R**
Plain door left H 1000 x W 600	**NSYDCRNG106L**
Plain door H 1200 x W 600	**NSYDCRNG126**
Plain door H 1200 x W 600	**NSYDCRNG126**
Plain door H 1200 x W 800	**NSYDCRNG128**
Plain door H 1200 x W 800	**NSYDCRNG128**
Plain door right H 1200 x W 500	**NSYDCRNG125R**
Plain door left H 1200 x W 500	**NSYDCRNG125L**
Plain door right H 1200 x W 500	**NSYDCRNG125R**
Plain door left H 1200 x W 500	**NSYDCRNG125L**
Plain door H 1200 x W 600	**NSYDCRNG126R**
Plain door left H 1200 x W 600	**NSYDCRNG126L**
Plain door H 1200 x W 600	**NSYDCRNG126R**
Plain door left H 1200 x W 600	**NSYDCRNG126L**
Plain door right H 1400 x W 500	**NSYDCRNG145R**
Plain door left H 1400 x W 500	**NSYDCRNG145L**

Description	References
Glazed door H 800 x W 600	**NSYDCRNG86T**
Glazed door H 1000 x W 600	**NSYDCRNG106T**
Glazed door H 1000 x W 800	**NSYDCRNG108T**
Glazed door H 1000 x W 1000	**NSYDCRNG1010T**
Glazed door H 1200 x W 600	**NSYDCRNG126T**
Glazed door H 1200 x W 600	**NSYDCRNG126T**
Glazed door H 1200 x W 800	**NSYDCRNG128T**
Glazed door H 1200 x W 800	**NSYDCRNG128T**
Locking accessories	
3 point lock linkage for Spacial CRNG (H = 800mm)	**NSYBTACRNG80**
3 point lock linkage for Spacial CRNG (H = 1000mm)	**NSYBTACRNG100**
3 point lock linkage for Spacial CRNG (H = 1200mm)	**NSYBTACRNG120**
3 point lock linkage for Spacial CRNG (H = 1400mm)	**NSYBTACRNG140**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware	
100 screws cable gland plate	**NSYS3DCGSB**
Standard screw bag cable gland plate	**NSYS3DCGPSTDSB**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**
Others accessories	
Screw bag CGP	**NSYCRNCGPSTDSB**

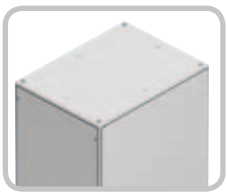
Spare parts
Selection table

Steel floor-standing enclosures

PB502412-27



PB503272-30



New roof

PB502415-27



Old roof

SF

Description	References	
Doors		
Spacial SFP plain door H 2000 x W 700 mm	**NSYSFD207**	
Spacial SFP transparent door H 2000 x W 700 mm	**NSYSFD207T**	
Door accessories		
Set of 4 Hinges & fixing elements	**NSYDHSF**	
Roof	**New roof**	**Old roof**
Spacial SF Standard roof W 300 x D 500 mm	**NSYRSF35L**	**NSYRSF35**
Spacial SF Standard roof W 300 x D 600 mm	**NSYRSF36L**	**NSYRSF36**
Spacial SF Standard roof W 300 x D 800 mm	**NSYRSF38L**	**NSYRSF38**
Spacial SF Standard roof W 400 x D 400 mm	**NSYRSF44L**	**NSYRSF44**
Spacial SF Standard roof W 400 x D 500 mm	**NSYRSF45L**	**NSYRSF45**
Spacial SF Standard roof W 600 x D 400 mm	**NSYRSF64L**	**NSYRSF64**
Spacial SF Standard roof W 600 x D 500 mm	**NSYRSF65L**	**NSYRSF65**
Spacial SF Standard roof W 600 x D 600 mm	**NSYRSF66L**	**NSYRSF66**
Spacial SF Standard roof W 700 x D 500 mm	**NSYRSF75L**	**NSYRSF75**
Spacial SF Standard roof W 700 x D 600 mm	**NSYRSF76L**	**NSYRSF76**
Spacial SF Standard roof W 700 x D 800 mm	**NSYRSF78L**	**NSYRSF78**
Spacial SF Standard roof W 800 x D 400 mm	**NSYRSF84L**	**NSYRSF84**
Spacial SF Standard roof W 800 x D 500 mm	**NSYRSF85L**	**NSYRSF85**
Spacial SF Standard roof W 800 x D 600 mm	**NSYRSF86L**	**NSYRSF86**
Spacial SF Standard roof W 800 x D 800 mm	**NSYRSF88L**	**NSYRSF88**
Spacial SF Standard roof W 1000 x D 400 mm	**NSYRSF104L**	**NSYRSF104**
Spacial SF Standard roof W 1000 x D 500 mm	**NSYRSF105L**	**NSYRSF105**
Spacial SF Standard roof W 1000 x D 600 mm	**NSYRSF106L**	**NSYRSF106**
Spacial SF Standard roof W 1000 x D 800 mm	**NSYRSF108L**	**NSYRSF108**
Spacial SF Standard roof W 1200 x D 400 mm	**NSYRSF124L**	**NSYRSF124**
Spacial SF Standard roof W 1200 x D 500 mm	**NSYRSF125L**	**NSYRSF125**
Spacial SF Standard roof W 1200 x D 600 mm	**NSYRSF126L**	**NSYRSF126**
Spacial SF Standard roof W 1200 x D 800 mm	**NSYRSF128L**	**NSYRSF128**
Spacial SF Standard roof W 1600 x D 400 mm	**NSYRSF164L**	**NSYRSF164**
Spacial SF Standard roof W 1600 x D 500 mm	**NSYRSF165L**	**NSYRSF165**
Spacial SF Standard roof W 1600 x D 600 mm	**NSYRSF166L**	**NSYRSF166**
Fixing hardware		
Captive screws for panels external fixing	**NSYCSSF**	

Description	References
Locking accessories	
Locking system for enclosures 1 single door version 1200H (right side door for double door version)	**NSYLCK12SF**
Locking system for enclosures 1 single door version 1400H	**NSYLCK14SF**
Locking system for enclosures 1 single door version 1600H (right side door for double door version)	**NSYLCK16SF**
Locking system for enclosures 1 single door version 1800H (right side door for double door version)	**NSYLCK18SF**
Locking system for enclosures 1 single door version 2000H (right side door for double door version)	**NSYLCK20SF**
Locking system for enclosures 1 single door version 2200H (right side door for double door version)	**NSYLCK22SF**
Door locking system toothed washer	**NSYLCKWSF**
Handle neutral trim	**NSYSFHNTRIM**
Plinth accessories	
H 100 mm Plastic covers for plinth corners	**NSYPC100**
H 200 mm Plastic covers for plinth corners	**NSYPC200**
Installation accessories	
Set of 2 quick cross-rails 120 x 400 mm	**NSYSQCR12040**
Set of 2 quick cross-rails 120 x 500 mm	**NSYSQCR12050**
Set of 2 quick cross-rails 120 x 600 mm	**NSYSQCR12060**
Set of 2 quick cross-rails 120 x 800 mm	**NSYSQCR12080**
Panels	
Spacial SFP back panel H 2000 x W 700 mm	**NSYBP207**
Standard roof W 1000 x D 400 mm	**NSYRSF104**
Standard roof W 1000 x D 500 mm	**NSYRSF105**
Standard roof W 1000 x D 600 mm	**NSYRSF106**
Standard roof W 1000 x D 800 mm	**NSYRSF108**
Standard roof W 1200 x D 400 mm	**NSYRSF124**
Standard roof W 1200 x D 500 mm	**NSYRSF125**
Standard roof W 1200 x D 600 mm	**NSYRSF126**
Standard roof W 1200 x D 800 mm	**NSYRSF128**
Standard roof W 1600 x D 400 mm	**NSYRSF164**
Standard roof W 1600 x D 500 mm	**NSYRSF165**
Standard roof W 1600 x D 600 mm	**NSYRSF166**
Standard roof W 300 x D 500 mm	**NSYRSF35**
Standard roof W 300 x D 600 mm	**NSYRSF36**
Standard roof W 300 x D 800 mm	**NSYRSF38**
Standard roof W 400 x D 400 mm	**NSYRSF44**
Standard roof W 400 x D 500 mm	**NSYRSF45**
Standard roof W 600 x D 400 mm	**NSYRSF64**
Standard roof W 600 x D 500 mm	**NSYRSF65**
Standard roof W 600 x D 600 mm	**NSYRSF66**
Standard roof W 800 x D 400 mm	**NSYRSF84**
Standard roof W 800 x D 500 mm	**NSYRSF85**
Standard roof W 800 x D 600 mm	**NSYRSF86**
Standard roof W 800 x D 800 mm	**NSYRSF88**
Framework	
8 gaskets framework uprights Spacial SF	**NSYSFVG**

Spare parts
Selection table

Steel floor-standing enclosures

PB502401-26



SM

Description	References
Cable gland plates	
1 entry W 1000 x D 400 mm	**NSYSMEC1041**
1 entry W 1000 x D 300 mm	**NSYSMEC1031**
1 entry W 1000 x D 500 mm	**NSYSMEC1051**
1 entry W 600 x D 300 mm	**NSYSMEC631**
1 entry W 600 x D 400 mm	**NSYSMEC641**
1 entry W 600 x D 500 mm	**NSYSMEC651**
1 entry W 600 x D 600 mm	**NSYSMEC661**
1 entry W 800 x D 300 mm	**NSYSMEC831**
1 entry W 800 x D 400 mm	**NSYSMEC841**
1 entry W 800 x D 500 mm	**NSYSMEC851**
1 entry W 800 x D 600 mm	**NSYSMEC861**
Doors	
Double plain door H 1200 x W 1000 mm	**NSYSMD12102D**
Double plain door H 1200 x W 1200 mm	**NSYSMD12122D**
Double plain door H 1400 x W 1000 mm	**NSYSMD14102D**
Double plain door H 1400 x W 1200 mm	**NSYSMD14122D**
Double plain door H 1600 x W 1000 mm	**NSYSMD16102D**
Double plain door H 1600 x W 1200 mm	**NSYSMD16122D**
Double plain door H 1800 x W 1600 mm	**NSYSMD18162D**
Door accessories	
Set of 4 hinges & fixing elements	**NSYDHSF**
Spacial SM hinges & 2D door stop	**NSYDHSM2D**

Description	References
Locking accessories	
Locking system for enclosures 1 single door version 1200H (right side door for double door version)	**NSYLCK12SF**
Locking system for enclosures 1 single door version 1600H (right side door for double door version)	**NSYLCK16SF**
Locking system for enclosures 1 single door version 1800H (right side door for double door version)	**NSYLCK18SF**
Locking system for enclosures 1 single door version 2000H (right side door for double door version)	**NSYLCK20SF**
Locking system for enclosures 1 single door version 2200H (right side door for double door version)	**NSYLCK22SF**
Locking system for enclosures 1 single door version 1400H	**NSYLCK14SF**
Door locking system toothed washer	**NSYLCKWSF**
Handle neutral trim	**NSYSFHNTRIM**
Plinth accessories	
H 100 mm Plastic covers for plinth corners	**NSYPC100**
H 200 mm Plastic covers for plinth corners	**NSYPC200**

OLN and S6000

Description	References
Doors	
Plain door H 1800 x W 600 mm	**OLPU186**
Plain door H 1800 x W 800 mm	**OLPU188**
Plain door H 2000 x W 600 mm	**OLPU206**
Plain door H 2000 x W 800 mm	**OLPU208**
Plain door H 2000 x W 1000 mm	**OLPU2010**
Transparent door H 1800 x W 800 mm	**OLPU188KT**
Transparent door H 2000 x W 800 mm	**OLPU208KT**
Door accessories	
Standard door hinges and pins, 4 units	**NSYDHS6**
Standard gasket for gland plate, 2000 mm	**NSYGKTS6**
Locking accessories	
Standard handle in RAL 7011	**NSYSDH**
Flat escutcheon DB 5 mm insert	**NSYEMPOLN**
Locking system for enclosures 1 single door version 1200H	**NSYLCK12S6**

Description	References
Locking system for enclosures 1 single door version 1600H	**NSYLCK16S6**
Locking system for enclosures 1 single door version 1800H	**NSYLCK18S6**
Locking system for enclosures 1 single door version 2000H	**NSYLCK20S6**
Locking system for enclosures 1 single door version 2200H	**NSYLCK22S6**
Panels	
Roof trim neutral 600 mm	**NSYTRIM6S6**
Roof trim neutral 800 mm	**NSYTRIM8S6**
Roof trim neutral 1000 mm	**NSYTRIM10S6**
Side panel H 1800 x W 500	**2PLOL185**
Side panel H 1800 x W 600	**2PLOL186**
Side panel H 2000 x W 500	**2PLOL205**
Side panel H 2000 x W 600	**2PLOL206**
Side panel H 2000 x W 800	**2PLOL208**

CMO and S18500

Description	References
Doors	
Roof trim neutral 1000 mm	**NSYTRIM10S18**
Plain door H 1800 x W 600 mm	**OLPU186**
Plain door H 1800 x W 800 mm	**OLPU188**
Plain door H 2000 x W 600 mm	**OLPU206**
Plain door H 2000 x W 800 mm	**OLPU208**
Plain door H 2000 x W 1000 mm	**OLPU2010**
Transparent door H 1800 x W 800 mm	**OLPU188KT**
Transparent door H 2000 x W 800 mm	**OLPU208KT**
Door accessories	
Standard door hinges and pins, 4 units	**NSYDHS18**
Standard gasket for gland plate, 2000 mm	**NSYGKTS6**

Description	References
Locking accessories	
Standard handle in RAL 7011	**NSYSDH**
Flat escutcheon DB 5 mm insert	**NSYEMPOLN**
Locking system for enclosures 1 single door version 1200H	**NSYLCK12S6**
Locking system for enclosures 1 single door version 1600H	**NSYLCK16S6**
Locking system for enclosures 1 single door version 1800H	**NSYLCK18S6**
Locking system for enclosures 1 single door version 2000H	**NSYLCK20S6**
Locking system for enclosures 1 single door version 2200H	**NSYLCK22S6**
Panels	
Roof trim neutral 600 mm	**NSYTRIM6S18**
Roof trim neutral 800 mm	**NSYTRIM8S18**

Spare parts
Selection table

Stainless steel enclosures

PB500075-40



S3X (wall-mounting)

Description	References
Doors	
Left door 304L 1000 x 1000 mm	**NSYDS3X1010L**
Left door 316L 1000 x 1000 mm	**NSYDS3X1010LH**
Right door 304L 1000 x 1000 mm	**NSYDS3X1010R**
Right door 316L 1000 x 1000 mm	**NSYDS3X1010RH**
Plain door 304L 1000 x 800 mm	**NSYDS3X108**
Plain door 316L 1000 x 800 mm	**NSYDS3X108H**
Left door 304L 1200 x 1000 mm	**NSYDS3X1210L**
Left door 316L 1200 x 1000 mm	**NSYDS3X1210LH**
Right door 304L 1200 x 1000 mm	**NSYDS3X1210R**
Right door 316L 1200 x 1000 mm	**NSYDS3X1210RH**
Plain door 304L 1200 x 800 mm	**NSYDS3X128**
Plain door 316L 1200 x 800 mm	**NSYDS3X128H**
Plain door 304L 300 x 200 mm	**NSYDS3X32**
Plain door 304L 300 x 250 mm	**NSYDS3X325**
Plain door 316L 300 x 250 mm	**NSYDS3X325H**
Plain door 316L300 x 200 mm	**NSYDS3X32H**
Plain door 304L 300 x 300 mm	**NSYDS3X33**
Plain door 316L 300 x 300 mm	**NSYDS3X33H**
Plain door 304L 400 x 300 mm	**NSYDS3X43**
Plain door 316L 400 x 300 mm	**NSYDS3X43H**
Plain door 304L 400 x 400 mm	**NSYDS3X44**
Plain door 316L 400 x 400 mm	**NSYDS3X44H**
Plain door 304L 400 x 600 mm	**NSYDS3X46**

Description	References
Plain door 316L 400 x 600 mm	**NSYDS3X46H**
Plain door 304L 500 x 400 mm	**NSYDS3X54**
Plain door 316L 500 x 400 mm	**NSYDS3X54H**
Plain door 304L 600 x 400 mm	**NSYDS3X64**
Plain door 316L 600 x 400 mm	**NSYDS3X64H**
Plain door 304L 600 x 600 mm	**NSYDS3X66**
Plain door 316L 600 x 600 mm	**NSYDS3X66H**
Plain door 304L 700 x 500 mm	**NSYDS3X75**
Plain door 316L 700 x 500 mm	**NSYDS3X75H**
Plain door 304L 800 x 600 mm	**NSYDS3X86**
Plain door 316L 800 x 600 mm	**NSYDS3X86H**
Plain door 304L 800 x 800 mm	**NSYDS3X88**
Plain door 316L 800 x 800 mm	**NSYDS3X88H**
Transp. door 304L 1000 x 800 mm	**NSYDS3X108T**
Transp. door 304L 400 x 300 mm	**NSYDS3X43T**
Transp. door 304L 500 x 400 mm	**NSYDS3X54T**
Transp. door 304L 600 x 400 mm	**NSYDS3X64T**
Transp. door 304L 700 x 500 mm	**NSYDS3X75T**
Transp. door 304L 800 x 600 mm	**NSYDS3X86T**
Door accessories	
Set of 2 hinges	**NSYHS3X**
Locking accessories	
Locking system 1000 mm	**NSYLSS3X10**
Locking system 1200 mm	**NSYLSS3X12**

PB500138-45



SMX (floor-standing)

Description	References
Cable gland plates	
Cable gland plate SMX64/SFX65	**NSYCEX2**
Cable gland p. SDX85/SMX85/SFX86	**NSYCEX7**
Cable gland plate SMX103	**NSYCEX10**
Cable gland plate SMX104	**NSYCEX11**
Cable gland plate SMX104 316L	**NSYCEX12**
Cable gland plate SMX124	**NSYCEX14**
Cable gland plate SMX124 316L	**NSYCEX15**
Cable gland plate SMX125 316L	**NSYCEX17**
Cable gland plate SMX84/SMX164	**NSYCEX5**
Cable gland plate SMX166	**NSYCEX8**
Cable gland plate SMX166 316L	**NSYCEX9**
Cable gland plate SMX84/SMX164 316L	**NSYCEX6**
Cable gland plate SDX125/SMX125	**NSYCEX16**
Doors	
Left door 304L 1400 x 1000 mm	**NSYDSFX1410L**
Right door 304L 1400 x 1000 mm	**NSYDSFX1410R**
Door 304L 1600 x 800 mm	**NSYDSFX168**
Door 304L 1800 x 600 mm	**NSYDSFX186**
Left door 1800 x 1200 mm	**NSYDSFX1812L**
Left door 316L 1800 x 1200 mm	**NSYDSFX1812LH**
Right door 1800 x 1200 mm	**NSYDSFX1812R**
Right door 316L 1800 x 1200 mm	**NSYDSFX1812RH**

Description	References
Door 304L 1800 x 800 mm	**NSYDSFX188**
Door 316L 1800 x 800 mm	**NSYDSFX188H**
Left door 304L 1800 x 1600 mm	**NSYDSFX1816L**
Left door 316L 1800 x 1600 mm	**NSYDSFX1816LH**
Right door 304L 1800 x 1600 mm	**NSYDSFX1816R**
Right door 316L 1800 x 1600 mm	**NSYDSFX1816RH**
Left door 2000 x 1000 mm	**NSYDSFX2010L**
Left door 316L 2000 x 1000 mm	**NSYDSFX2010LH**
Right door 2000 x 1000 mm	**NSYDSFX2010R**
Right door 316L 2000 x 1000 mm	**NSYDSFX2010RH**
Door 1800 x 800 mm	**NSYDSFX206**
Left door 2000 x 1200 mm	**NSYDSFX2012L**
Left door 316L 2000 x 1200 mm	**NSYDSFX2012LH**
Right door 2000 x 1200 mm	**NSYDSFX2012R**
Right door 316L 2000 x 1200 mm	**NSYDSFX2012RH**
Door 2000 x 800 mm	**NSYDSFX208**
Left door 2000 x 1600 mm	**NSYDSFX2016L**
Left door 316L 2000 x 1600 mm	**NSYDSFX2016LH**
Right door 2000 x 1600 mm SMX	**NSYDSFX2016R**
Right door 316L 2000 x 1600 mm	**NSYDSFX2016RH**

Spare parts
Selection table

Stainless steel enclosures

PB501254-36

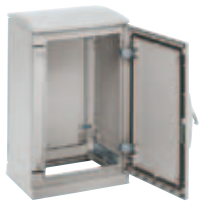


SFX (floor-standing)

Description	References
Cable gland plates	
Cable gland plate SFX64	**NSYCEX1**
Cable gland plate SMX64/SFX65	**NSYCEX2**
Cable gland p. SDX85/SMX85/SFX86	**NSYCEX7**
Cable gland plate SFX84	**NSYCEX4**
Cable gland plate SDX105/SFX106	**NSYCEX13**
Cable gland plate SDX65/SFX126	**NSYCEX3**
Cable gland plate 800x400 mm SFX	**NSYCEX84A**
Doors	
Door 304L 1800 x 600 mm	**NSYDSFX186**
Left door 1800 x 1200 mm	**NSYDSFX1812L**
Right door 1800 x 1200 mm	**NSYDSFX1812R**
Door 304L 1800 x 800 mm	**NSYDSFX188**
Left door 2000 x 1000 mm	**NSYDSFX2010L**
Right door 2000 x 1000 mm	**NSYDSFX2010R**
Door 1800 x 800 mm	**NSYDSFX206**
Left door 2000 x 1200 mm	**NSYDSFX2012L**
Right door 2000 x 1200 mm	**NSYDSFX2012R**
Door 2000 x 800 mm	**NSYDSFX208**
Left door 2000 x 1600 mm	**NSYDSFX2016L**
Right door 2000 x 1600 mm	**NSYDSFX2016R**
Door accessories	
Set of 3 hinges	**NSYHSMX**
Locking accessories	
Locking system 1400 mm	**NSYLSSFX14**
Locking system 1600 mm	**NSYLSSFX16**
Locking system 1800 mm	**NSYLSSFX18**
Locking system 2000 mm	**NSYLSSFX20**

Insulating materials

PB501347SE-29



PLA (floor-standing)

Description	References	
Doors	**For RAL7032**	**For RAL7035**
Door 500 x 500 with lock system, without hinges	**NSYDPLA55**	**NSYDPLA55G**
Door 500 x 750 with lock system, without hinges	**NSYDPLA57**	**NSYDPLA57G**
Door 750 x 500 with lock system, without hinges	**NSYDPLA75**	**NSYDPLA75G**
Door 750 x 750 with lock system, without hinges	**NSYDPLA77**	**NSYDPLA77G**
Door 1000 x 500 with lock system, without hinges	**NSYDPLA105**	**NSYDPLA105G**
Door 1000 x 750 with lock system, without hinges	**NSYDPLA107**	**NSYDPLA107G**
Door 1250 x 500 with lock system, without hinges	**NSYDPLA125**	**NSYDPLA125G**
Door 1250 x 750 with lock system, without hinges	**NSYDPLA127**	**NSYDPLA127G**
Door 1500 x 500 with lock system, without hinges	**NSYDPLA155**	**NSYDPLA155G**
Door 1500 x 750 with lock system, without hinges	**NSYDPLA157**	**NSYDPLA157G**
Door 500 x 500 with lock system (handle type), without hinges	**NSYDPLA55H**	**NSYDPLA55HG**
Door 500 x 750 with lock system (handle type), without hinges	**NSYDPLA57H**	**NSYDPLA57HG**
Door 750 x 500 with lock system (handle type), without hinges	**NSYDPLA75H**	**NSYDPLA75HG**
Door 750 x 750 with lock system (handle type), without hinges	**NSYDPLA77H**	**NSYDPLA77HG**
Door 1000 x 500 with lock system (handle type), without hinges	**NSYDPLA105H**	**NSYDPLA105HG**
Door 1000 x 750 with lock system (handle type), without hinges	**NSYDPLA107H**	**NSYDPLA107HG**
Door 1250 x 500 with lock system (handle type), without hinges	**NSYDPLA125H**	**NSYDPLA125HG**
Door 1250 x 750 with lock system (handle type), without hinges	**NSYDPLA127H**	**NSYDPLA127HG**
Door 1500 x 500 with lock system (handle type), without hinges	**NSYDPLA155H**	**NSYDPLA155HG**
Door 1500 x 750 with lock system (handle type), without hinges	**NSYDPLA157H**	**NSYDPLA157HG**
Door accessories	**For RAL7032**	**For RAL7035**
One hinge + axe for PLA (120° opening)	**NSYAEDPLA004**	-
Kit of axes of door PLAZT (180° opening)	**NSYAEDPLA005**	-
Rod guide inside the door PLA (set of 2)	**NSYAEDPLA001**	-
Rod guide on 1 door PLA (set of 2)	**NSYAEDPLA002**	**NSYAEDPLA002G**
Rod guide on 2 doors PLA (set of 2)	**NSYAEDPLA003**	**NSYAEDPLA003G**
Fixing hardware		
Acc. bag for 1 door h 500-1000	**NSYASPLA001**	
Acc. bag for 2 door h 1250-1500	**NSYASPLA002**	
Acc. bag for 2 door	**NSYASPLA003**	
Locking accessories	**For RAL7032**	**For RAL7035**
Locking and rods h 500	**NSYVPLA5**	**NSYVPLA5G**
Locking and rods h 750	**NSYVPLA7**	**NSYVPLA7G**
Locking and rods h 1000	**NSYVPLA10**	**NSYVPLA10G**
Locking and rods h 1250	**NSYVPLA12**	**NSYVPLA12G**
Locking and rods h 1500	**NSYVPLA15**	**NSYVPLA15G**
Handle locking and rods h 500	**NSYVPLA5M**	**NSYVPLA5MG**
Handle locking and rods h 750	**NSYVPLA7M**	**NSYVPLA7MG**
Handle locking and rods h 1000	**NSYVPLA10M**	**NSYVPLA10MG**
Handle locking and rods h 1250	**NSYVPLA12M**	**NSYVPLA12MG**
Handle locking and rods h 1500	**NSYVPLA15M**	**NSYVPLA15MG**
Plinths - front or back plate		**For RAL7035**
For PLA 500 mm width		**NSYZZ5FP**
For PLA 700 mm width		**NSYZZ7FP**
For PLA 1000 mm width		**NSYZZ10FP**
For PLA 1200 mm width		**NSYZZ12FP**

Spare parts
Selection table

Insulating materials

PB501325SE-32



PLM (wall-mounting)

Description	References	
Doors	**For RAL7032**	**For RAL7035**
Door without locking for PLM32	**NSYDPLM32**	**NSYDPLM32G**
Door without locking for PLM3025	**NSYDPLM3025**	**NSYDPLM3025G**
Door without locking for PLM43	**NSYDPLM43**	**NSYDPLM43G**
Door without locking for PLM54	**NSYDPLM54**	**NSYDPLM54G**
Door without locking for PLM64	**NSYDPLM64**	**NSYDPLM64G**
Door without locking for PLM75	**NSYDPLM75**	**NSYDPLM75G**
Door without locking for PLM86	**NSYDPLM86**	**NSYDPLM86G**
Door without locking for PLM108	**NSYDPLM108**	**NSYDPLM108G**
Transp. door without locking for PLM32T	**NSYDPLM32T**	**NSYDPLM32TG**
Glazed door without locking for PLM3025T	**NSYDPLM3025T**	**NSYDPLM3025TG**
Glazed door without locking for PLM43T	**NSYDPLM43T**	**NSYDPLM43TG**
Glazed door without locking for PLM54T	**NSYDPLM54T**	**NSYDPLM54TG**

Description	References	
Glazed door without locking for PLM64T	**NSYDPLM64T**	**NSYDPLM64TG**
Glazed door without locking for PLM75T	**NSYDPLM75T**	**NSYDPLM75TG**
Glazed door without locking for PLM86T	**NSYDPLM86T**	**NSYDPLM86TG**
Glazed door without locking for PLM108T	**NSYDPLM108T**	**NSYDPLM108TG**
Door accessories		
Door hinge for NSYPLM32	**NSYAEDHPLM32**	
Door hinge for NSYPLM3025	**NSYAEDHPLM3025**	
Door hinge for NSYPLM43 to 86	**NSYAEDHPLM**	
Door hinge for NSYPLM108	**NSYAEDHPLM108**	
Rod guides (4 pieces) for PLM108	**NSYAEDPLM108**	
Fixing hardware		
Acc. bag NSYPLM32	**NSYASPLM32**	
Acc. bag NSYPLM43 to 86	**NSYASPLM**	
Locking accessories		
Locking and rods for NSYPLM108	**NSYVPLM108**	

Applicative and customised solutions: HMI

PB501202-36



SD

Description	References
Cable gland plates	
1 entry W 600 mm	**NSYCESD6R**
1 entry W 800 mm	**NSYCESD8R**
1 entry W 1000 mm	**NSYCESD10R**
1 entry W 1200 mm	**NSYCESD12R**
1 entry W 600 x D 800 mm	**NSYFCESD68**
1 entry W 800 x D 800 mm	**NSYFCESD88**
1 entry W 1000 x D 800 mm	**NSYFCESD108**
1 entry W 1200 x D 800 mm	**NSYFCESD128**
1 entry W 1600 x D 800 mm	**NSYFCESD168**
1 entry W 800 x D 1000 mm	**NSYFCESD810**
1 entry W 1000 x D 1000 mm	**NSYFCESD1010**
1 entry W 1200 x D 1000 mm	**NSYFCESD1210**
1 entry W 1600 x D 1000 mm	**NSYFCESD1610**
Doors	
Desk lid W 600 mm	**NSYDLSD6**
Desk lid W 800 mm	**NSYDLSD8**
Desk lid W 1000 mm	**NSYDLSD10**
Desk lid W 1200 mm	**NSYDLSD12**
Desk lid for w/console W 800 mm	**NSYDLSDF8**
Desk lid for w/console W 1000 mm	**NSYDLSDF10**
Desk lid for w/console W 1200 mm	**NSYDLSDF12**
Desk lid for w/console W 1600 mm	**NSYDLSDF16**
Folding console cover W 800 mm	**NSYCCSDF8**
Folding console cover W 1000 mm	**NSYCCSDF10**
Folding console cover W 1200 mm	**NSYCCSDF12**
Folding console cover W 1600 mm	**NSYCCSDF16**
Cover W 400 mm for modular console	**NSYMCCSD4**

Description	References
Cover W 600 mm for modular console	**NSYMCCSD6**
Frontal door W 600 mm	**NSYDSD6**
Frontal door W 800 mm	**NSYDSD8**
Frontal right door W 1000 mm	**NSYDSD10R**
Frontal left door W 1000 mm	**NSYDSD10L**
Frontal right door W 1200 mm	**NSYDSD12R**
Frontal left door W 1200 mm	**NSYDSD12L**
Frontal door w/console W 800 mm	**NSYDSDF8**
Front. R door w/console W 1000 mm	**NSYDSDF10R**
Front. L door w/console W 1000 mm	**NSYDSDF10L**
Front. R door w/console W 1200 mm	**NSYDSDF12R**
Front. L door w/console W 1200 mm	**NSYDSDF12L**
Front. R door w/console W 1600 mm	**NSYDSDF16R**
Front. L door w/console W 1600 mm	**NSYDSDF16L**
Door accessories	
Hinges compact control desk	**NSYHSD**
Hinges control desk w/console	**NSYHSDF**
Locking accessories	
Standard handle in RAL 7011	**NSYSDH**
Flat escutcheon DB 5 mm insert	**NSYEMPOLN**
Lock w/DB 3 mm for frontal doors	**NSYFDLSD**
Lock w/DB 3 mm desk lids & covers	**NSYDLLSDF**
Flat escutcheon with DB 5 mm	**NSYSDFLOCKDB5**
Panels	
Rear panel W 600 mm	**NSYBPSD6**
Rear panel W 800 mm	**NSYBPSD8**
Rear panel W 1000 mm	**NSYBPSD10**
Rear panel W 1200 mm	**NSYBPSD12**

Spare parts
Selection table

Applicative and customised solutions: HMI

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SDX

Description	References
Cable gland plates	
Cable gland pl. SDX85/SMX85/SFX86	**NSYCEX7**
Cable gland plate SDX105/SFX106	**NSYCEX13**
Cable gland plate SDX125/SMX125	**NSYCEX16**
Cable gland plate SDX65/SFX126	**NSYCEX3**
Doors	
Frontal door 600 mm	**NSYDSDX6**
Frontal door 800 mm	**NSYDSDX8**
Frontal right door 1000 mm	**NSYDSDX10R**
Frontal right door 1200 mm	**NSYDSDX12R**
Frontal left door 1000 mm	**NSYDSDX10L**
Frontal left door 1200 mm	**NSYDSDX12L**
Desk lid 1000 mm	**NSYDLSDX10**
Desk lid 1200 mm	**NSYDLSDX12**
Desk lid 600 mm	**NSYDLSDX6**
Desk lid 800 mm	**NSYDLSDX8**

Description	References
Locking accessories	
Locking system	**NSYLSSDX**
Panels	
Rear panel 1000 mm	**NSYBPSDX10**
Rear panel 1200 mm	**NSYBPSDX12**
Rear panel 600 mm	**NSYBPSDX6**
Rear panel 800 mm	**NSYBPSDX8**

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S3CM

Description	References
Doors	
Plain door H 200 x W 200	**NSYDCRN22**
Plain door H 200 x W 300	**NSYDCRN23**
Plain door H 250 x W 200	**NSYDCRN2520**
Plain door H 300 x W 250	**NSYDCRN3025**
Plain door H 300 x W 300	**NSYDCRN33**
Plain door H 300 x W 400	**NSYDCRN34**
Plain door H 300 x W 450	**NSYDCRN3045**
Plain door H 400 x W 300	**NSYDCRN43**
Plain door H 400 x W 400	**NSYDCRN44**
Plain door H 400 x W 600	**NSYDCRN46**
Plain door H 500 x W 500	**NSYDCRN55**
Plain door H 600 x W 600	**NSYDCRN66**
Plain door H 600 x W 800	**NSYDCRN68**
Plain door H 800 x W 600	**NSYDCRN86**

Description	References
Door accessories	
Standard Spacial hinge	**NSYBICRN**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Panels	
Aluminium plate H 250 x W 600	**NSYPACMT256**
Aluminium plate H 300 x W 300	**NSYPAS3CM33**
Aluminium plate H 300 x W 400	**NSYPAS3CM34**
Aluminium plate H 400 x W 400	**NSYPAS3CM44**
Aluminium plate H 400 x W 600	**NSYPAS3CM46**
Aluminium plate H 500 x W 500	**NSYPAS3CM55**
Aluminium plate H 600 x W 600	**NSYPAS3CM66**
Aluminium plate H 600 x W 800	**NSYPAS3CM68**
Aluminium plate H 800 x W 600	**NSYPAS3CM86**

Applicative and customised solutions: EMC

PB500205-42



S3HF

Description	References
Doors	
Plain door H 400 x W 300	**NSYDS3HF43**
Plain door H 400 x W 600	**NSYDS3HF46**
Plain door H 500 x W 400	**NSYDS3HF54**
Plain door H 600 x W 400	**NSYDS3HF64**
Plain door H 600 x W 600	**NSYDS3HF66**
Plain door H 700 x W 500	**NSYDS3HF75**
Plain door H 800 x W 600	**NSYDS3HF86**
Plain door H 1000 x W 800	**NSYDS3HF108**
Plain door H 1200 x W 800	**NSYDS3HF128**

Description	References
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	
Standard Locking system	**NSYAEDLS3HFDB3**

Spare parts
Selection table

Applicative and customised solutions: ATEX

PB500096



S3DEX

Description	References
Doors	
Plain door 300 x 200	**NSYDS3D32**
Plain door 300 x 300	**NSYDS3D33**
Plain door 400 x 300	**NSYDS3D43**
Plain door 400 x 400	**NSYDS3D44**
Plain door 500 x 400	**NSYDS3D54**
Plain door 600 x 400	**NSYDS3D64**
Plain door 600 x 600	**NSYDS3D66**
Plain door 700 x 500	**NSYDS3D75**
Plain door 800 x 600	**NSYDS3D86**
Plain door 1000 x 800	**NSYDS3D108**
Earthing accessories	
Set of 500 earthing labels	**NSYSWMEL**

Description	References
Locking accessories	
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
Panels	
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

Outdoor Heavy Duty enclosures

PB502845-21



Thalassa PHD

Description	References	
Aluminium cable-gland plate		
For enclosure W 750 x D 420	**NSYPPC74HD**	
For enclosure W 750 x D 620	**NSYPPC76HD**	
For enclosure W 500 x D 420	**NSYPPC54HD**	
For enclosure W 1250 x D 420	**NSYPPC54HD** + **NSYPPC74HD**	
For enclosure W 1250 x D 620	**NSYPPC56HD** + **NSYPPC76HD**	
Screws and nuts for PHD gland plate	**NSYPPCPHDSN**	
Plain doors (door + lock + hinges + door retainer)	**Unic door or right door**	**Left door**
For enclosures H 538 x W 500	**NSYDPHD55P**	-
For enclosures H 788 x W 500	**NSYDPHD75P**	-
For enclosures H 843 x W 750	**NSYDPHD77P**	-
For enclosures H 1093 x W 500	**NSYDPHD105P**	-
For enclosures H 1093 x W 750	**NSYDPHD107P**	-
For enclosures H 1343 x W 500	**NSYDPHD125P**	-
For enclosures H 1343 x W 750	**NSYDPHD127P**	-
For enclosures H 1343 x W 1250	**NSYDPHD127P**	**NSYDPHD125LP**
For enclosures H 1593 x W 750	**NSYDPHD157P**	-
For enclosures H 1593 x W 1250	**NSYDPHD157P**	**NSYDPHD155LP**
For enclosures H 2093 x W 750	2 x **NSYDPHD107P**	-
Ribbed doors (door + lock + hinges + door retainer)	**Unic door or right door**	**Left door**
For enclosures H 538 x W 500	**NSYDPHD55R**	-
For enclosures H 788 x W 500	**NSYDPHD75R**	-
For enclosures H 843 x W 750	**NSYDPHD77R**	-
For enclosures H 1093 x W 500	**NSYDPHD105R**	-
For enclosures H 1093 x W 750	**NSYDPHD107R**	-
For enclosures H 1343 x W 500	**NSYDPHD125R**	-
For enclosures H 1343 x W 750	**NSYDPHD127R**	-
For enclosures H 1343 x W 1250	**NSYDPHD127R**	**NSYDPHD125LR**
For enclosures H 1593 x W 750	**NSYDPHD157R**	-
For enclosures H 1593 x W 1250	**NSYDPHD157R**	**NSYDPHD155LR**
For enclosures H 2093 x W 750	2 x **NSYDPHD107R**	-

Description	References
Door accessories	
Complete lock system for PHD H 500	**NSYVPHD5**
Complete lock system for PHD H 750	**NSYVPHD7**
Complete lock system for PHD H 1000	**NSYVPHD10**
Complete lock system for PHD H 1250	**NSYVPHD12**
Complete lock system for PHD H 1500	**NSYVPHD15**
Complete lock system for PHD H 2000	2 x **NSYVPHD10**
Set of 4 complete hinges for PHD	**NSYAEDPHD**
Ventilated plinths - front or back plate	
For PHD 1200 mm width	**NSYZZ12VHDFP**
For PHD 500 mm width	**NSYZZ5VHDFP**
For PHD 700 mm width	**NSYZZ7VHDFP**

Spare parts
Selection table

PB502653-17



Spacial S3HD

Description	References
Heavy duty cable-gland plate	
For enclosure H 343 x W 200 x D 180	**NSYTLAUHD**
For enclosure H 448 x W 300 x D 230	**NSYTLCUHD**
For enclosure H 548 x W 400 x D 230	**NSYTLDUHD**
For enclosure H 653 x W 400 x D 280	**NSYTLDUHD**
For enclosure H 658 x W 600 x D 330	**NSYTLGUHD**
For enclosure H 753 x W 500 x D 280	**NSYTLEUHD**
For enclosure H 858 x W 600 x D 330	**NSYTLGUHD**
For enclosure H 862 x W 800 x D 430	2 x **NSYTLDUHD**
For enclosure H 1062 x W 600 x D 430	**NSYTLGUHD**
For enclosure H 1062 x W 800 x D 430	2 x **NSYTLDUHD**
Door	
Door 300 x 200 S3HD, without handle	**NSYDS3HD32**
Door 400 x 300 S3HD, without handle	**NSYDS3HD43**
Door 500 x 400 S3HD, without handle	**NSYDS3HD54**
Door 600 x 400 S3HD + linkage locking syst	**NSYDS3HD64**
Door 600 x 600 S3HD + linkage locking syst	**NSYDS3HD66**
Door 700 x 500 S3HD + linkage locking syst	**NSYDS3HD75**
Door 800 x 600 S3HD + linkage locking syst	**NSYDS3HD86**
Door 800 x 800 S3HD + linkage locking syst	**NSYDS3HD88**
Door 1000 x 600 S3HD + linkage locking syst	**NSYDS3HD106**
Door 1000 x 800 S3HD + linkage locking syst	**NSYDS3HD108**

Description	References
Hinge	
S3HD hinge	**NSYAEDH120S3HD**
Canopy	
Canopy for S3HD 200 (W) x 150 (P)	**NSYTJ2015HD**
Canopy for S3HD 300 (W) x 200 (P)	**NSYTJ3020HD**
Canopy for S3HD 400 (W) x 200 (P)	**NSYTJ4020HD**
Canopy for S3HD 400 (W) x 250 (P)	**NSYTJ4025HD**
Canopy for S3HD 600 (W) x 300 (P)	**NSYTJ6030HD**
Canopy for S3HD 500 (W) x 250 (P)	**NSYTJ5025HD**
Canopy for S3HD 800 (W) x 400 (P)	**NSYTJ8040HD**
Canopy for S3HD 600 (W) x 400 (P)	**NSYTJ6040HD**
Lock	
Lock S3HD DB 3 mm (Escutcheon+cam+washer)	**NSYAEDLS3HDRL**

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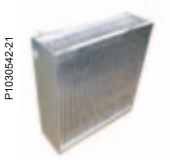


Spacial SFHD

Description	References
Heavy duty cable-gland plate	
For enclosure H 1262 x W 600 x D 430	**NSYSFECA64HD**
For enclosure H 1262 x W 800 x D 430	**NSYSFECA64HD**
For enclosure H 1262 x W 1200 x D 430	2 x **NSYSFECA64HD**
For enclosure H 1281 x W 600 x D 630	**NSYSFECA66HD**
For enclosure H 1281 x W 800 x D 630	**NSYSFECA66HD**
For enclosure H 1281 x W 1200 x D 630	2 x **NSYSFECA66HD**
For enclosure H 1662 x W 800 x D 430	**NSYSFECA64HD**
For enclosure H 1662 x W 1200 x D 430	2 x **NSYSFECA64HD**
For enclosure H 1681 x W 600 x D 630	**NSYSFECA66HD**
For enclosure H 1681 x W 800 x D 630	**NSYSFECA66HD**
For enclosure H 1681 x W 1200 x D 630	2 x **NSYSFECA66HD**
For enclosure H 2062 x W 800 x D 430	**NSYSFECA64HD**
Door	
Plain door SFHD 1200 x 600mm	**NSYSFDHD126**
Plain door SFHD 1200 x 800mm	**NSYSFDHD128**
Plain door SFHD 1200 x 1200mm	**NSYSFDHD12122D**
Plain door SFHD 1600 x 600mm	**NSYSFDHD166**
Plain door SFHD 1600 x 800mm	**NSYSFDHD168**
Plain door doble SFHD 1600 x 1200mm	**NSYSFDHD16122D**
Plain door SFHD 2000 x 800mm	**NSYSFDHD208**

Description	References
Back Panel	
Back panel SFHD 1200 x 600mm	**NSYBPHD126**
Back panel SFHD 1200 x 800mm	**NSYBPHD128**
Back panel SFHD 1200 x 1200mm	**NSYBPHD12122D**
Back panel SFHD 1600 x 600mm	**NSYBPHD166**
Back panel SFHD 1600 x 800mm	**NSYBPHD168**
Back panel SFHD 1600 x 1200mm	**NSYBPHD1612**
Back panel SFHD 2000 x 800mm	**NSYBPHD208**
Canopy	
Canopy SFHD 600 x 400mm	**NSYSC64HD**
Canopy SFHD 600 x 600mm	**NSYSC66HD**
Canopy SFHD 800 x 400mm	**NSYSC84HD**
Canopy SFHD 800 x 600mm	**NSYSC86HD**
Canopy SFHD 1200 x 400mm	**NSYSC124HD**
Canopy SFHD 1200 x 600mm	**NSYSC126HD**
Handle with 1242E cylindrical barrel	
Handle SFHD 1242E	**NSYSFHS1HD**
Captive screws	
Captive screws for Spacial SFHD panels	**NSYCSSFHD**

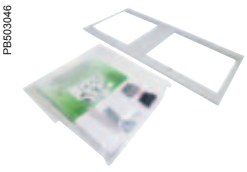
Spare parts
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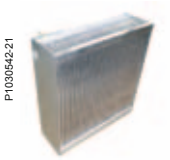






AIR-AIR EXCHANGERS

Reference	Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035	Thermostat	Mounting Kit (instruction + full seal + screws)
NSYCEA14E	NSYCUSP0030	NSYCUSP0042	NSYCUSP0076	-	NSYCUSP0111
NSYCEA22E	NSYCUSP0177	NSYCUSP0042	NSYCUSP0181	-	NSYCUSP0184
NSYCEA36	NSYCUSP0031	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA50	NSYCUSP0032	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA80	NSYCUSP0033	NSYCUSP0138	NSYCUSP0078	NSYCUSP0100	NSYCUSP0113









AIR-WATER EXCHANGERS

Reference	Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035	Frontal Cover Stainless Steel
NSYCEW1K	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1K	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1KUL	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1KUL	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1K8	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW1K8UL	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8UL	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW2K5	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW2K5UL	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5UL	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW3K5	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW3K5UL	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5UL	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW4K5	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW4K5UL	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5UL	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW6K	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6KUL	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6KUL	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6K2P4	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K2P4	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW10K	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW10K2P4	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K2P4	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K2P4	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K2P4	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW2K5R	NSYCUSP0041	NSYCUSP0053	NSYCUSP0084	-

Spare parts
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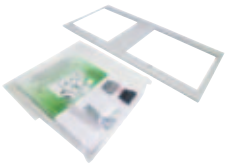
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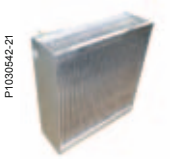


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AIR-WATER EXCHANGERS				
Reference	Thermostat	Transformer	Solenoid Valve	Mounting Kit (instruction + full seal + screws)
NSYCEW1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEWX1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEW1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEWX1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEW1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEW6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEWX6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEW6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEW10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW2K5R	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0117

Spare parts
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COOLING UNITS: SIDE MOUNTING MODELS

Reference	Evaporator Battery	Evaporator Fan (fan + capacitor)	Condenser Battery	Condenser Fan (fan + capacitor)	Compressor Kit
NSYCU300H	NSYCUSP0001	NSYCUSP0042	NSYCUSP0013	NSYCUSP0042	NSYCUSP0054
NSYCU400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU400UL	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCUX400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCUX2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCU2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCUX2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCU2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCUX2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCU2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCUX2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCU3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU6K3P4	-	-	-	-	-
NSYCU6K3P460	-	-	-	-	-
NSYCU8K3P4	-	-	-	-	-
NSYCU8K3P460	-	-	-	-	-
NSYCU10K3P4	-	-	-	-	-
NSYCU10K3P460	-	-	-	-	-
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Spare parts
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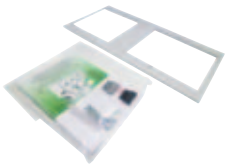
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PB503039



PB503046



COOLING UNITS & SIDE MOUNTING MODELS

Reference	Frontal Cover RAL 7035	Frontal Cover Stainless Steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCU300H	NSYCUSP0066	-	NSYCUSP0099	-	NSYCUSP0118
NSYCU400	NSYCUSP0067	-	NSYCUSP0099	-	NSYCUSP0126
NSYCU400UL	NSYCUSP0067	-	NSYCUSP0144	-	NSYCUSP0126
NSYCUX400	-	NSYCUSP0085	NSYCUSP0099	-	NSYCUSP0126
NSYCU600	NSYCUSP0068	-	NSYCUSP0099	-	NSYCUSP0127
NSYCUX600	-	NSYCUSP0086	NSYCUSP0099	-	NSYCUSP0127
NSYCU600UL	NSYCUSP0068	-	NSYCUSP0144	-	NSYCUSP0127
NSYCUX600UL	-	NSYCUSP0086	NSYCUSP0144	-	NSYCUSP0127
NSYCU800	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX800	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU800UL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX800UL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX1K	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU1KUL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX1KUL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K2P4	NSYCUSP0069	-	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCUX1K2P4	-	NSYCUSP0087	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCU1K2P4UL	NSYCUSP0069	-	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCUX1K2P4UL	-	NSYCUSP0087	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCU1K2	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K2	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K2UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K2UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K22P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCUX1K22P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCU1K6	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K6	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K6UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K6UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K62P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCUX1K62P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCU1K62P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCUX1K62P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCU2K	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX2K	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU2KUL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX2KUL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU2K3P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCUX2K3P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCU2K3P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCUX2K3P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCU3K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX3K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU3K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX3K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU4K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX4K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU4K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX4K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU6K3P4	-	-	NSYCUSP0099	-	-
NSYCU6K3P460	-	-	NSYCUSP0099	-	-
NSYCU8K3P4	-	-	NSYCUSP0099	-	-
NSYCU8K3P460	-	-	NSYCUSP0099	-	-
NSYCU10K3P4	-	-	NSYCUSP0099	-	-
NSYCU10K3P460	-	-	NSYCUSP0099	-	-
NSYCU15K3P4	-	-	NSYCUSP0099	-	-
NSYCU15K3P460	-	-	NSYCUSP0099	-	-

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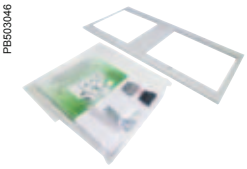


COOLING UNITS: ROOF MOUNT					
Reference	**Evaporator battery**	**Evaporator fan (fan + capacitor)**	**Condenser battery**	**Condenser fan (fan + capacitor)**	**Compressor kit**
NSYCU400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCUX400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCU400RUL	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0172
NSYCU800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCUX800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU800RUL	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCUX1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K2RUL	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCUX1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU1K5RUL	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCUX2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCU2K3P4RUL	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0062
NSYCU2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCUX2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCU3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCUX3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU3K3P4RUL	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCUX4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCU4K3P4RUL	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063









Reference	Frontal cover RAL 7035	Frontal cover stainless steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCU400R	NSYCUSP0072	-	NSYCUSP0099	-	NSYCUSP0121
NSYCUX400R	-	NSYCUSP0090	NSYCUSP0099	-	NSYCUSP0121
NSYCU400RUL	NSYCUSP0072	-	NSYCUSP0144	-	NSYCUSP0121
NSYCU800R	NSYCUSP0073	-	NSYCUSP0099	-	NSYCUSP0122
NSYCUX800R	-	NSYCUSP0091	NSYCUSP0099	-	NSYCUSP0122
NSYCU800RUL	NSYCUSP0073	-	NSYCUSP0144	-	NSYCUSP0122
NSYCU1K2R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K2R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K2RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU1K5R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K5R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K5RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU2K3P4R	NSYCUSP0074	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCUX2K3P4R	-	NSYCUSP0092	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCU2K3P4RUL	NSYCUSP0074	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0129
NSYCU2KR	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX2KR	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU3K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCUX3K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCU3K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123
NSYCU4K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCUX4K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCU4K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123

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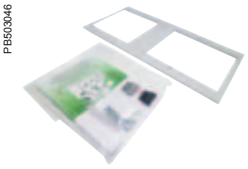

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COOLING UNITS HEAVY DUTY					
Reference	**Evaporator battery**	**Evaporator fan (fan + capacitor)**	**Condenser battery**	**Condenser fan (fan + capacitor)**	**Compressor kit**
NSYCUHD400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0158	NSYCUSP0042	NSYCUSP0055
NSYCUHD600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0159	NSYCUSP0044	NSYCUSP0056
NSYCUHD800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0160	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0163	NSYCUSP0138	NSYCUSP0061
NSYCUHD3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0164	NSYCUSP0137	NSYCUSP0062
NSYCUHD4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0165	NSYCUSP0137	NSYCUSP0063


P1030580-19


PB503043


PB503046

Reference	Frontal cover RAL 7035	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCUHD400	NSYCUSP0167	NSYCUSP0100	-	NSYCUSP0153
NSYCUHD600	NSYCUSP0168	NSYCUSP0100	-	NSYCUSP0154
NSYCUHD800	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K2P4	NSYCUSP0169	NSYCUSP0100	NSYCUSP0101	NSYCUSP0155
NSYCUHD1K6	NSYCUSP0170	NSYCUSP0100	-	NSYCUSP0156
NSYCUHD1K62P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0103	NSYCUSP0156
NSYCUHD2K3P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0104	NSYCUSP0156
NSYCUHD3K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157
NSYCUHD4K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157

Spare parts
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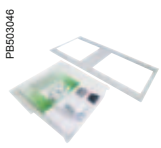


COOLING UNITS SLIM					
Reference	**Evaporator battery**	**Evaporator fan (fan + capacitor)**	**Condenser battery**	**Condenser fan (fan + capacitor)**	**Compressor kit**
NSYCUS1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUSX1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUS1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUSX1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUS1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUSX1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUS1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUSX1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUS2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139
NSYCUSX2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139
NSYCUS2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062
NSYCUSX2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062
NSYCUS2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140
NSYCUSX2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140
NSYCUS2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062
NSYCUSX2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062
NSYCUS3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141
NSYCUSX3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141
NSYCUS3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063
NSYCUSX3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063













Reference	**Frontal cover RAL 7035**	**Frontal cover stainless steel**	**Thermostat**	**Transformer**	**Mounting kit (instruction + full seal + screws)**	**Metal frame kit (frame + seal + screws)**	**Metal frame kit stainless steel (frame + seal + screws)**
NSYCUS1K1UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K1UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K12P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K12P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K5UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K5UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K52P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K52P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2KUL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2KUL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K3P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K3P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K5UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K5UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K53P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
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NSYCUSX3K23P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166

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