

2017 Catalog



EasyPact EXE

Vacuum circuit breaker up to 17.5kV

Fixed and withdrawable versions

Medium Voltage Distribution

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EasyPact EXE:

Enjoy more flexibility and deliver MV switchgear faster

PM105371



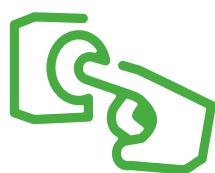
Your needs

EasyPact EXE answers



Safety

Designed for greater safety,
for both the operator and end user
applications.



Simply to use

Simple to use, with fast delivery,
easy online ordering, and
personalized technical support.



Flexibility

Flexible, with modular kits offering
more options for later customization
than other circuits breakers in its
class.

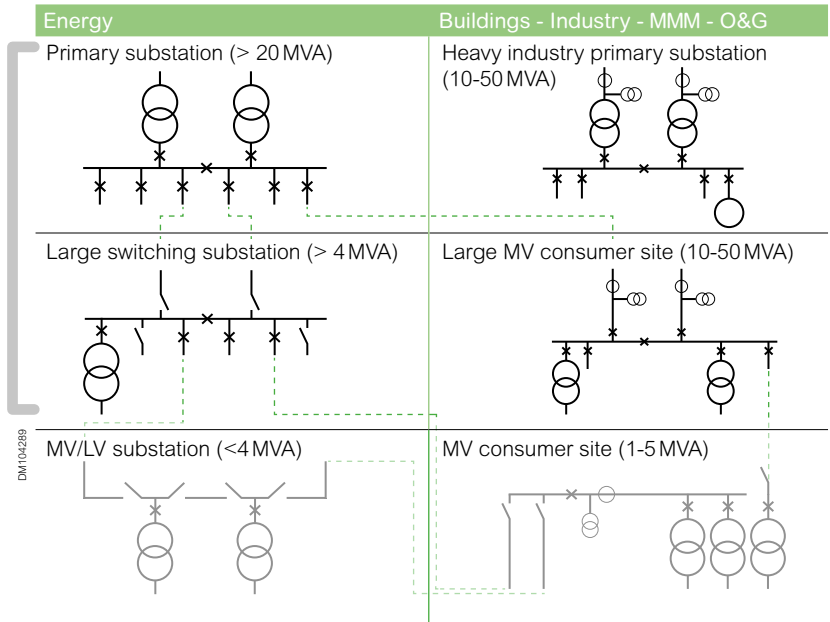
Overview

Overview

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EasyPact EXE is a range of vacuum circuit breakers designed to connect building infrastructure (heating, ventilation, lighting, etc.) and industrial plant processes (MV motors, MV/LV substations, furnaces, etc.) to the power grid, and to protect people and equipment.

Description



EasyPact EXE is available in 2 versions: fixed and withdrawable.

The fixed version comprises:

- 3 poles equipped with vacuum interrupters for medium voltage systems up to 17.5 kV / 31.5 kA / 2 500 A
- 6 primary contacts to connect the vacuum interrupters to the switchgear busbars section on one side and to cables or to another busbars section on the other side
- A spring-operated mechanism to give the device an opening and closing speed that is independent of the operator
- A set of terminal blocks to connect the circuit breaker auxiliaries to the switchgear control circuit and protection relay
- A front cover with pushbuttons, status indicators, and a lever to charge the closing spring in case of lack of auxiliary supply voltage

The withdrawable version comprises:

- 6 arms mounted on the switching device to adapt the position of the primary contacts to engage into the switchgear
- A racking trolley to move the circuit breaker from the disconnected position to the service position and vice versa, either by rotating a lever on the front of the switchgear with the door closed, or remotely by activating an electrical order from the control room
- A removable LV plug with flexible ducting to maintain the circuit breaker auxiliary circuits connected to the switchgear control circuit and the protection relay in any circuit breaker position: disconnected or service



PM105370



Applications

Infrastructure

- Airports
- Hospitals

Large commercial buildings

- High rise buildings
- Malls
- Shopping centres,
- Office buildings

Industrial plants

- Batch processes plants
- Cement plants
- Food and beverage plants

Power grid

- Distribution substations

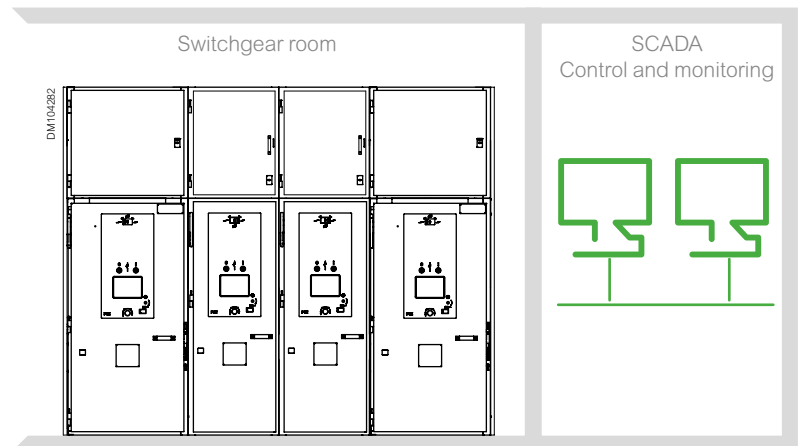
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PM105369



PM105368



EasyPact EXE circuit breaker enables the Panel Builder to design switchgear solutions with enhanced safety features, which can be fully controlled from a separate room.

The IEC ⁽¹⁾ standard stipulates:

"Select equipment that minimizes the risks to personnel from improper operation (for example, fast acting ground switches on lines, motor operators to allow remote operation)".

The right choice of components such as racking trolley, vacuum interrupter and operating mechanism, is crucial to fulfil this IEC recommendation.

⁽¹⁾ IEC62271-1 Ed. 2011 - Section 11.2

Operating mechanism

The operating mechanism gives the device an opening and closing speed that is independent of the operator whether the order is electrical or manual. It carries out reclosing cycles and it is automatically recharged by a geared motor after each closing.

It ensures that the opening order always takes priority over the closing order. In the event of permanent and simultaneous opening and closing orders, it has to maintain the circuit breaker in the «open» position. Once the opening order has been canceled, the closing order has to be interrupted then reactivated to enable closing of the circuit breaker.

The EasyPact EXE operating mechanism comprises:

- A mechanism that stores in the springs the energy required to open, close, and open the device
- A mechanical antipumping system to prevent reclosing after a close-open operation as long as the closing order is maintained
- A lever to manually charge the closing spring when the auxiliary power supply is not available
- Two pushbuttons on the front for manual opening and closing orders, that can be equipped with keylocking and padlocking accessories
- A device indicating the closing spring "charged" and "discharged" status by means of a mechanical indicator on the front
- A mechanical position indicator on the front to indicate whether the device is open or closed
- A gear motor (MCH) for automatically charging the closing spring. The gear motor is equipped as standard with an electrical contact to signal the "charged" position of the mechanism (springs charged)
- An electrical closing release for remote closing order (XF)
- An electrical opening release for remote opening order (MX1) and optional, a second electrical opening release that can be either shunt opening type (MX2) or undervoltage type (MN)
- A ready to close contact (PF) indicating that the circuit breaker fulfills the following conditions:
 - the circuit-breaker contacts are opened
 - the closing spring is charged
 - the opening push button is not activated by a keylock device or manually
 - the opening shunt release is not energized
 - the undervoltage release, if present, is energized
- One, two or three blocks of 4 auxiliary contacts for remote indication of the open or closed position of the circuit breaker
- An operation counter (CDM)

The materials used to manufacture operating mechanism sub-assemblies have been selected and designed to operate 10 000 cycles with preventive maintenance under the conditions defined by the IEC standard.



Operating mechanism

PE55604



Vacuum interrupter

Vacuum interrupter

The vacuum interrupter has to convey and break the rated normal current, and has to convey and break the rated short-circuit current a number of times, in line with the manufacturer's specification.

It consists of two electrical contacts, one fixed and the other mobile inside a sealed enclosure. The level of pressure inside the enclosure has to be very low (less than 10^{-1} Pa) to reach the value specified for the dielectric withstand between the open contacts. In order to maintain the pressure level inside the interrupter throughout its expected operating life, the enclosure has to be perfectly sealed, and the various components have to be fully degassed. This is achieved by:

- Choosing materials that are specifically selected for this application (metals and ceramics)
- Choosing an appropriate assembly process (vacuum, high temperature brazing)
- The use of a "getter" material to absorb the residual gas inside the enclosure.

EasyPact EXE vacuum interrupters are designed to operate 10 000 cycles, under the conditions defined by the IEC standard.

PM106402



Racking device

Racking device

The racking device moves the circuit breaker from the disconnected position to the service position and vice versa. The racking operation can be done either manually by rotating a lever on the front of the switchgear with the door closed, or remotely by activating an electrical order. Remote operation is recommended as it allows convenient operation from beyond any arc flash boundary.

EasyPact EXE racking device has a robust interlocking system with the switchgear door, the LV plug, the circuit-breaker and the earthing switch. It can be equipped with accessories such as keylocks, padlocks and an electric motor for remote racking from the control room.

The materials used to manufacture EasyPact EXE racking trolley sub-assemblies have been selected and designed to operate 2 000 cycles under the conditions defined by the IEC standard.

Customer support

A QR code on the front of the EasyPact EXE enables Specifier, Panelbuilders and End-Users to access easily to Information and support.



EasyPact EXE on SE.com web page

Specifier, Panelbuilders and End-Users have access to:

- Catalogue and Brochure
- Certificate of Conformity for each Basic Function
- 3D models
- User Guide, Receipt Guide
- Instruction sheet

EasyPact EXE on Safe Repository

<https://saferepository.schneider-electric.com/login>

Panelbuilders and End-Users owner of EasyPact EXE device have access, according to Reference number and Serial number to:

- Routine test
- Nameplate information
- Assembly sheet with the list of Kits assembled on the Device
- Certificate of dispatch of the Device from Schneider Electric
- Maintenance information

Customer Care Center

Specifiers, Panelbuilders and End-Users have access to on line Customer Care Center to request information on EasyPact EXE. Schneider Electric has set up call centers and e-mail contacts in more than 190 countries to provide a rapid response to customer inquiries.

Personnel in the country using EasyPact EXE are trained to provide qualified answers to customer questions.

Technical and commercial support

Schneider Electric offers extensive technical and commercial support to Panel Builders, including expert advice on

- How to customize EasyPact EXE
- How to integrate EasyPact EXE in switchgear
- How to prepare switchgear for testing in the laboratory
- How to analyze the results from type tests to improve switchgear design
- How to verify the technical performance of EasyPact EXE in assembled switchgear

Training documents and other support material can be provided to Panel Builders.

Please contact your Schneider Electric sales representative for more information.

PM105367



Robust design controls

EasyPact EXE has been designed in accordance with rigorous verification checks that include:

- A product design quality system certified ISO 9001 compliant by AFNOR (an independent certification organization based in France)
- Recognized simulation software to verify the dielectric, thermal, and electrodynamic behavior of the circuit breaker components in various switchgear models
- Extensive type tests in laboratories accredited according to ISO/IEC standard 17025

DM104291



Proven compliance
with IEC standard

Every type of EasyPact EXE circuit breaker has been subjected to the following type tests, as defined by the IEC standard 62271-100:

- Dielectric tests
- Measurement of the resistance of the main circuit
- Temperature rise tests
- Short-time withstand current and peak withstand current tests
- Additional tests on auxiliary and control circuits
- Mechanical operating test at ambient temperature
- Short-circuit making and breaking tests
- Extended mechanical endurance tests for M2 class
- Electrical endurance tests for E2 class
- Capacitive current switching tests:
 - Line-charging current switching test
 - Cable-charging current switching test
 - Single capacitor bank switching tests
- Out-of-phase making and current switching tests

All type tests are witnessed by a third party, ASEFA, which has the authority to issue a certificate of conformity according to ISO/IEC standard 17065.

The certificates of conformity issued by ASEFA indicate the following on the front page:

- The apparatus type defined as fixed or withdrawable and the phase distance
- The circuit breaker reference defined by the main rated characteristics: rated voltage, rated short-circuit breaking current, rated normal current
- The list of relevant type test reports used by ASEFA to certify EasyPact EXE conformity with the IEC standard

PM106410

Certificat de conformité / Certificate of conformity
N° 01-42-327-02

Délivré à / Issued to: Schneider Electric Industries SAS
89, Boulevard Franklin Roosevelt
92500 RUEIL MALMAISON - FRANCE

Pour le produit / For the product: Disjoncteur haute tension / High-voltage circuit-breaker
Référence(s) / Reference(s): EXE122006A1B version fixe / fixed version
EasyPact EXE 12kV 20kA 650A (145mm distance d'entrephase / 145mm phase distance)
Selon dossier d'identification / According to Identification File: NVER6726500 Rev 01

Marque commerciale / Trademark: Schneider Electric
Fabricant / Manufacturer: Schneider Electric Industries SAS
Site de fabrication / Place of manufacture: Schneider Electric, SEA plant - Aubenas - FRANCE
Informations complémentaires / Additional information: sans objet / none

Document(s) de référence / Reference document(s):
IEC 62271-100 Ed 2.1 (2012-09): liste des essais en Annexe 1 / list of tests in Annex 1

Caractéristiques certifiées / Certified ratings: voir Annexe 2 / refer to Annex 2

Document(s) pris en compte (s) / Relevant document(s):
Rapport(s) d'essai / Test report(s): voir Annexe 1 / refer to Annex 1
(émis par F11 en tant que laboratoire homologué ASEFA, et DNV-GL/KEMA / issued by F11 as ASEFA approved laboratory, and DNV-GL/KEMA)

Ce certificat ne s'applique qu'à l'échantillon soumis à l'essai de type / This certificate applies only to the sample submitted to the type test.
Ce certificat a été émis selon les dispositions des Règles de certification ASEFA en vigueur / This certificate has been issued under the provisions of the current ASEFA Certification Rules.

Fontenay-aux-Roses,
Le / On: 08/07/2016

Le Président de l'ASEFA / The Chairman of ASEFA,

Marie-Elisabeth D'ORNANO po. Vincent SCHUHL

33, av du général Leclerc
92260 Fontenay-aux-Roses - France
tel. 01 40 95 61 02
e-mail: contact@asefa-cert.com

ASEFA
Accréditation
n°5-4002
Portée étendue sur /
Scope available on
www.asefa.fr

Reproduit ASEFA n°1, version 4.1 / Form of ASEFA n°1 Certificate, version 4.1

PM105366



Robust manufacturing controls

EasyPact EXE is manufactured in factories certified compliant to ISO 9001 for product quality by third party.

The following quality controls are implemented to ensure that each product delivered to Panel Builder has the same performance as the unit type tested:

- Regular inspection of critical components and processes using a coordinate measuring machine
- Regular measure of residual gas inside the vacuum interrupter by mass spectrometry
- Regular mechanical tests on circuit breaker samples
- Routine tests on all products:
 - Dielectric tests on the main circuit
 - Tests on auxiliary and control circuit
 - Measurement of the resistance of the main circuit
 - Design and visual checks
 - Mechanical operating tests
 - Tightness test of each individual vacuum interrupter

Schneider Electric delivers products with assembly instruction sheets available on website at www.schneider-electric.com.

The Panel Builder customizes the circuit breaker by following these instructions. This enables the Panel Builder to be very flexible when ordering products references.

Customization flexibility



Simple online ordering

With MySE, the Schneider Electric online application, registered Panel Builders can access order management and logistics information securely and immediately (24/7).

This app provides the real-time price and lead time for any EasyPact EXE reference and offers additional benefits such as online ordering, delivery status follow-up, invoice reprinting, etc.

Registered Panel Builders can also access EcorealMV, EasyPact EXE product selector, which allows to easily generate the list of product references needed for a given switchgear configuration, and to upload it into MySE and Panelbuilder ERP.

On-the-shelf availability

EasyPact EXE benefits from Schneider Electric's well-established supply chain with local distribution centers that can deliver high demand products in few days (5 days ex-works usually).

Broad range of dimensions

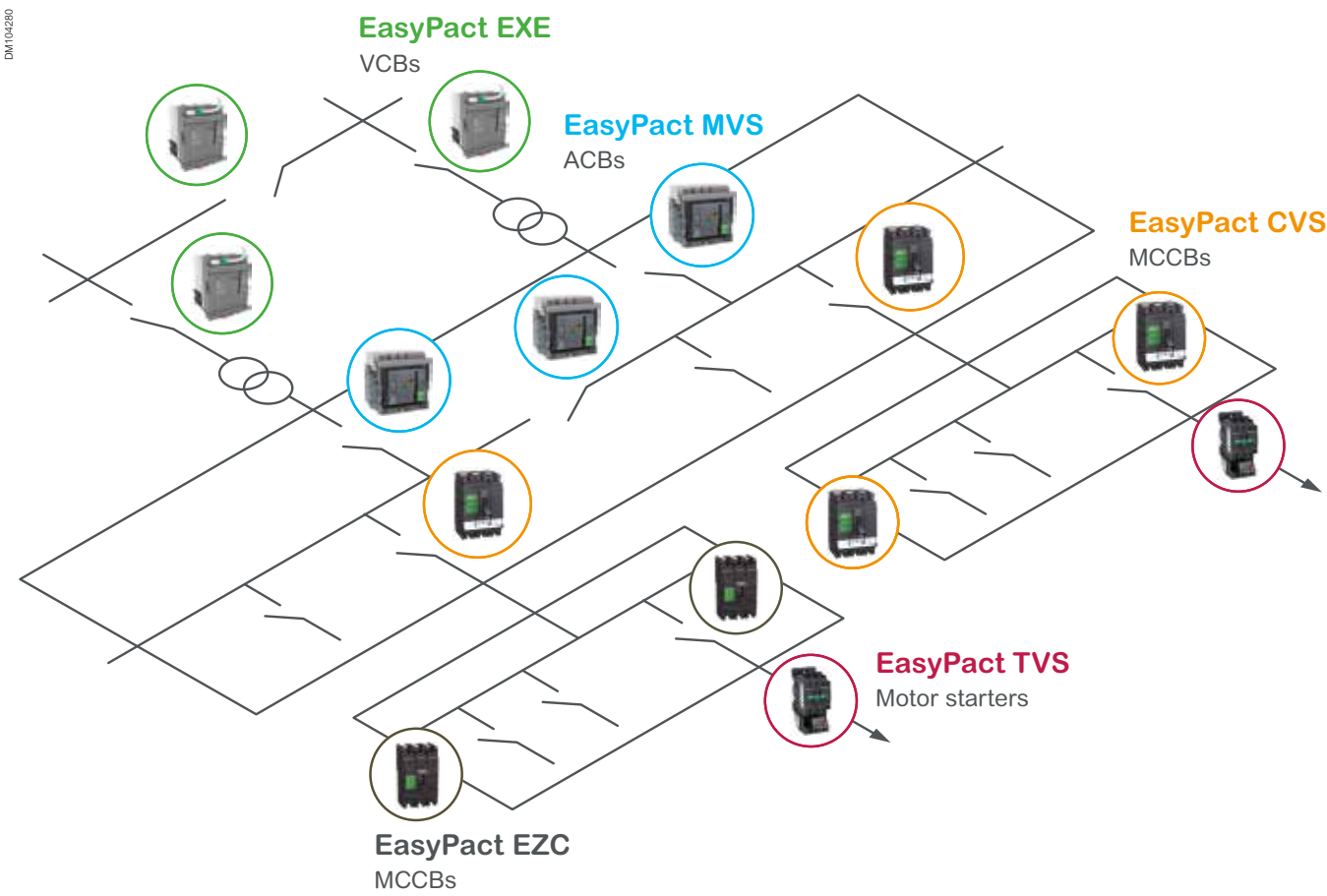
The wide range of dimensions available in this catalog enables Panel Builders to build compact cubicles starting at 600 mm/800 mm wide for ratings up to 1 250 A and 800 mm/900 mm wide for ratings up to 2 500 A. In addition, the availability of versions with phase distances of 150 mm, 210 mm, and 275 mm means that circuit breakers of various brands can be replaced in existing cubicles with minor modifications to the cubicle architecture.

Cost saving

The features listed above help to reduce costs and give Panel Builders more time to do what really matters: Take care of customers.

A comprehensive solution

The EasyPact family: Build your complete MV & LV distribution network



Medium voltage	
General specification	EasyPact EXE
Rated voltage (kV)	7,2 / 12 - 17,5
Rated lightning impulse withstand (kV)	60 / 75 - 95
Rated short circuit breaking current (kA)	20 - 25 - 31.5
Rated duration of short circuit (s)	3
Rated normal current (A)	630 - 800 - 1 250 1 600 - 2 000 - 2 500
Target application	Building, industry, and power grid



Low voltage				
General specification	EasyPact MVS	EasyPact CVS	EasyPact TVS	EasyPact EZC
Rated insulation voltage (V) Ui	1 000	690	690	690
Impulse withstand voltage (kV) Uimp	12	8	6	6
Rated operational voltage (V AC 50/60 Hz) Ue	690	440	690	550
Target application	Buildings and industry	Commercial and industrial buildings	Buildings and simple industry	Commercial and residential buildings

A comprehensive solution

The EasyPact family: Build your complete MV & LV distribution network

CPB 10000-40



EasyPact MVS

The easy choice for reliable performance

Application

Power circuit breakers, ideal for the "head end" of electrical distribution panels in medium to large office buildings and factories.

Performance

Reliable performance for the entire range with a rating:

- $I_{cs} = I_{cu} = I_{cw} (1 s) = 50 \text{ and } 65 \text{ kA at } 440 \text{ V}$

Flexibility

Covers a broader range of applications than competing offers:

- Suitable for applications up to 690 V
- Operates across a wide temperature range before requiring derating
- Compatible with copper and aluminium connections
- Includes a complete range of switch disconnectors

PB106446-42



EasyPact CVS

The easy choice for quality and value

Application

Moulded-case circuit breakers, an excellent choice for feeders and sub-feeders in small and medium-sized industrial and commercial buildings.

Performance

Better reliability and safety than competing breakers:

- $I_{cs} = 100\% I_{cu}$
- Suitable for reverse feeding applications
- Adjustable thermal protection
- Optional insulation fault protection
- IEC 60947-2 isolation and highly visible contact position ensures the downstream circuit is safe.

Flexibility

- Compatible with copper and aluminium connections
- Includes a complete range of switch disconnectors

A comprehensive solution

The EasyPact family: Build your complete MV & LV distribution network



EasyPact EZC

The easy choice for simplicity

Application

Moulded-case circuit breakers, ideal for feeders and sub-feeders in residential, commercial, and marine applications.

Performance

Three sizes, fixed settings, and an attractive price point make this range well suited for simple protection in small and medium-sized buildings.

Flexibility

Multiple connection options:

- Fixed front mounting, plug-in mounting, front connections, bare cables connected through cable lugs, screwed inside the breaker
- Unique "fish bone" connection, space saving especially for marine applications



EasyPact TVS

The easy choice for simplicity and flexibility

Application

Motor starter solutions, ideal for HVAC, textile, material handling, and manufacturing environments.

Performance

Optimized range of features, performance, and quality at their price point.

Flexibility

Complete range of products covers wide range of applications:

- Basic motor protection circuit breaker
- Contactors
- Thermal overload relays
- Control relays

Schneider Electric product portfolios include a wide choice of multi-function relays to be used together with EasyPact EXE to build a consistent solution for protection, control, and monitoring.



Easergy P3



Sepam range



MiCOM range



PowerLogic range



VAMP 125

Protection and control relays

Protection and control relays provide all the necessary functions:

- Effective fault diagnosis and protection planning
- Accurate measurements and detailed diagnosis
- Integral equipment control
- Local or remote indication and operation

Easergy P3

The Easergy P3 range of relays is suitable for all common applications as well as some specific applications including advanced metering functions. Easergy P3 relays are to protect applications, from overhead line feeders and substations to power plants and industrial power systems.

Sepam

Sepam series 20, series 40, series 60 and series 80 protection relays take full advantage of Schneider Electric's experience in electrical network protection.

Sepam allows easy upgrading : addition of communication, digital I/O's, analog output, or temperature acquisition systems can be added due to its modular design.

MiCOM

MiCOM protection provides the user with a choice of optimised solutions for specific protection requirements within the distribution network.

The MiCOM relay series offers comprehensive protective function solutions for all power supply systems as well as for various functional and hardware project stages.

PowerMeter and circuit monitors

The PowerLogic PowerMeter replaces a whole set of basic analogue meters.

This cost-effective, high-performance meter provides a full range of accurate true-rms metering values.

The PowerLogic series 3000/4000 Circuit Monitor is designed for critical power users and large energy consumers, to provide the information needed to confidently enter the evolving world of deregulation.

It can be adapted to meter almost any time-of-use or real-time rate.

VAMP arc fault protection relay

The VAMP arc protection unit detects an arc flash in an installation and trips the feeding breaker. The unique arc fault protection functionality enhances the safety of both people and property and has made VAMP a leading brand in arc protection relays worldwide.

Schneider Electric Services

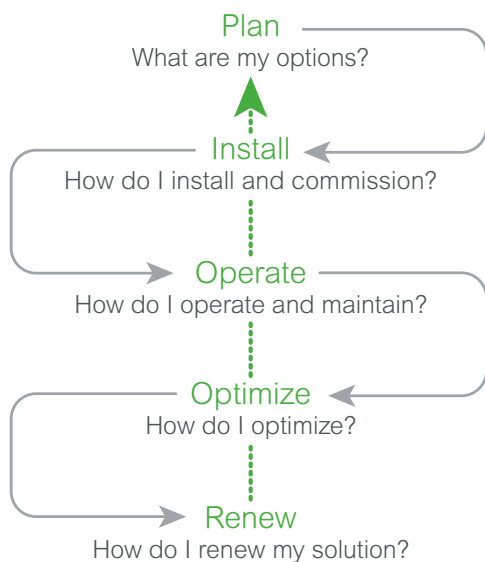
Peace of mind throughout your installation life cycle

How can you cut costs and improve performance at the same time?

When it comes to your electrical distribution infrastructure, the answer is straightforward: get professional expertise.

Life Cycle Services

DB408643



Plan

Schneider Electric helps you plan the full design and execution of your solution, looking at how to secure your process and optimize your time:

- **Technical feasibility studies:** Design solution in your environment
- **Preliminary design:** Accelerate turnaround time to reach a final solution design

Install

Schneider Electric will help you to install efficient, reliable and safe solutions based on your plans.

- **Project management:** Complete your projects on time and within budget
- **Commissioning:** Ensure your actual performance versus design, through on-site testing and commissioning, and tools and procedures

Operate

Schneider Electric helps you maximize your installation uptime and control your capital expenditures through its services offering.

- **Asset operation solutions:** Provide the information you need to increase safety, enhance installation performance, and optimize asset maintenance and investment
- **Advantage service plans:** Customize service plans that cover preventive, predictive and corrective maintenance
- **On-site maintenance services:** Deliver extensive knowledge and experience in electrical distribution maintenance
- **Spare parts management:** Ensure spare parts availability and optimized maintenance budget of your spare parts
- **Technical training:** Build necessary skills and competencies to properly and safely operate your installations

Optimize

Schneider Electric proposes recommendations for improved safety, availability, reliability and quality.

- **MP4 electrical assessment:** Define an improvement and risk management program

Schneider Electric Services

Peace of mind throughout your installation life cycle

When it comes to your electrical distribution installation, we can help you:

- Increase productivity, reliability, and safety
- Mitigate risk and limit downtime
- Keep equipment up to date and extend lifespan
- Cut cost and increase savings
- Improve your return on investment

CONTACT US!

www.schneider-electric.com/b2b/en/services/

The Electrical-Room **ENVIRONMENTAL conditions** (favorable,normal, severe) (i.e.corrosive, naval, offshore) are following recommendations of Manufacturer's services.

Equipment Criticality is the combination of device stress level and its impact on the reliability of the installation; the level of criticality are (minor, major, critical).

For more details about how to categorize your Electrical-Room Environment conditions and Equipment Criticality contact your Sales representative.

Renew

Schneider Electric extends the life of your system while providing upgrades.

We offer to take full responsibility for the end-of-life processing of old electrical equipments.

- **ECOFIT™**: Keep up to date and improve performances of your electrical installations (LV, MV, protection relays, etc.)
- **MV product end of life**: Recycle and recover outdated equipment with end-of-life services

Frequency of maintenance intervention

Schneider Electric recommends implementing a schedule for maintenance activities to extend electrical distribution equipment performance over time.

Frequencies under normal/healthy operation (minor equipment criticality and optimal environmental conditions) can be generally defined as described in the table below:

Maintenance	Min. freq. ⁽¹⁾	Who		
		Manufacturer	Certified Partner	End user
Exclusive	every 5 years	•		
Advanced	every 2 years	•	•	
Light	every 1 year	•	•	•

(1) Recommended minimum frequency under normal operating conditions (minor equipment criticality and favourable environmental conditions).

However, for Eclusive Maintenance, the frequency could be increased according to Electrical-Room Environment conditions and Equipment Criticality, as described in the table below:

Electrical-Room ENVIRONMENTAL conditions	Equipment CRITICALITY		
	Minor	Major	Critical
Favourable	5	5	4
Normal	5	4	3
Severe	4	3	2
Recommended PERIODICITY in YEARS			

Spare parts

Under Schneider Electric's spare parts management policy, EasyPact EXE parts will be available for 10 years after end of commercialization of the product.

Services Contract

A service contract for the switchgear room can be offered by the local Schneider service team with packages such as predictive maintenance, preventive maintenance, 24/7 hotline, emergency on-site intervention, and emergency spare part delivery. The availability of the service plan offers varies in different countries.

Schneider Electric Services

The main advantages of modernization solutions using EasyPact EXE



Asset optimization

The life of existing electrical equipment is extended thereby increasing the return on investment.

Reduced production stoppage

A retrofit full panel replacement can take anywhere from only a few minutes up to an hour. When considering whether to maintain equipment or replace it, facility managers must take into account the initial capital cost, along with potential disruption to the facility's processes and workflow during the course of changing out the equipment. Unless process loads can be rerouted temporarily during the demolition of old equipment and installation of the new switchgear, the cost of lost production can be substantial.

Improved cash flow

A full retrofit of an industrial site could be spread over several years. Often, when new equipment is purchased, the on-site physical plant also needs to be modified to accommodate the new equipment, which adds to the cost.

Reduced risk

Installing new switchgear involves more cabling (which requires that existing cabling above and below the equipment be moved). In some cases, cabling may need to be replaced or spliced, which introduces a higher element of risk.

Peace of mind

Pre-tested solutions from established manufacturers provide a high degree of confidence in a retrofit solution. Schneider Electric have managed thousands of switchgear retrofit projects and have an extensive library of lessons learned. Qualified personnel and up-to-date tools reduce the risk of accidents and delays. Accompanying safety improvements and updated warranties also contribute to overall power network peace of mind.

Digitization

Retrofit solutions also open the door to enhanced equipment connectivity. This then allows access to more detailed levels of energy management data, which enables better monitoring of energy consumption.

Lower environmental impact

Since a retrofit solution replaces only a portion of the existing electrical equipment, fewer waste materials need to be processed than if a complete replacement were to occur.



Quality assurance

Schneider Electric incorporates a functional organization into each of its business units and manufacturing plants, the purpose of which is to provide a means of checking quality and monitoring compliance with standards.

This procedure is:

- Uniform throughout all departments
- Recognized by many customers and approved organizations

But above all, its strict application has allowed us to obtain the recognition of AFNOR certification, an independent organisation delivering AFAQ quality mark.

The quality system for the design and manufacture of circuit breakers has been certified in conformity with the requirements of the ISO 9001:2015 quality assurance model.

Environmental performance

Schneider Electric is committed to a long-term environmental approach.

All necessary measures have been taken in conjunction with our services, suppliers, and subcontractors so that the materials used in the composition of the equipment comply with acceptable content levels of regulated substances as defined by regulations and directives. The production site is certified to ISO 14001.

In addition, the materials used in EasyPact EXE, insulators and conductors, are identified and can easily be separated and recycled, as detailed in the "Product Environment Profile" file. An end-of-service-life manual details procedures for dismantling and processing components.



Green Premium is the only label that allows you to effectively develop and promote an environmental policy whilst preserving your business efficiency. This ecolabel guarantees compliance with up-to-date environmental regulations, but it does more than this.

Over 75% of Schneider Electric manufactured products have been awarded the Green Premium ecolabel



Discover what we mean by green

Check your products!

Schneider Electric's Green Premium ecolabel is committed to offering transparency, by disclosing extensive and reliable information related to the environmental impact of its products:

RoHS

Schneider Electric products are subject to RoHS requirements at a worldwide level, even for the many products that are not required to comply with the terms of the regulation. Compliance certificates are available for products that fulfil the criteria of this European initiative, which aims to eliminate hazardous substances.

REACH

Schneider Electric applies the strict REACH regulation on its products at a worldwide level, and discloses extensive information concerning the presence of SVHC (Substances of Very High Concern) in all of these products.

PEP: Product Environmental Profile

Schneider Electric publishes complete set of environmental data, including carbon footprint and energy consumption data for each of the lifecycle phases on all of its products, in compliance with the ISO 14025 PEP ecopassport program. PEP is especially useful for monitoring, controlling, saving energy, and/or reducing carbon emissions.

EoLI: End of Life Instructions

Available at the click of a button, these instructions provide:

- Recyclability rates for Schneider Electric products.
- Guidance to mitigate personnel hazards during the dismantling of products and before recycling operations.
- Parts identification for recycling or for selective treatment, to mitigate environmental hazards/ incompatibility with standard recycling processes.

EasyPact EXE range

EasyPact EXE range

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Fixed Circuit Breaker (CB)

Main characteristics

According to IEC 62271-100



Designation				Dimensions and electrical characteristics							
Phase distance (mm)				145	150	185	185	210	210	240	275
Rated voltage	Ur	kV	12	•	•	•	•	•	•	•	•
			17.5	•	•	•	•	•	•	•	•
Rated frequency	fr	Hz	50/60	•	•	•	•	•	•	•	•
Rated short duration power frequency withstand voltage ⁽¹⁾	Ud	kV	28	•	•	•	•	•	•	•	•
			38	•	•	•	•	•	•	•	•
Rated lightning impulse withstand voltage	Up	kV	75	•	•	•	•	•	•	•	•
			95	•	•	•	•	•	•	•	•
Rated short-circuit breaking current	Isc	kA	20	•	•	•	•	•	•	•	•
			25	•	•	•	•	•	•	•	•
			31.5	•	•	•	•	•	•	•	•
Rated duration of short-circuit	tk	s	3	•	•	•	•	•	•	•	•
Rated normal current	Ir	A	630	•	•	•	•	•	•	•	•
			800	•	•	•	•	•	•	•	•
			1 250	•	•	•	•	•	•	•	•
			1 600	•	•	•	•	•	•	•	•
			2 000	•	•	•	•	•	•	•	•
			2 500	•	•	•	•	•	•	•	•

Additional characteristics according to IEC 62271-100 are listed in the common characteristics section.
(1) Contact us for 42 kV - 5 min.©

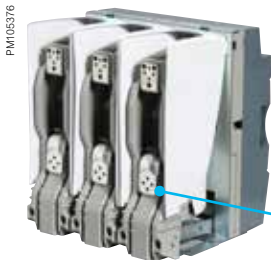
The EasyPact EXE fixed version is equipped with threaded copper connection terminals at the top and bottom. The shape and dimensions of conductors must be determined by the Panel Builder according to the dielectric withstand and temperature rise characteristics of the whole connection system.

Field deflectors on lower connection up to 1250A may be required to achieve 95 kV BIL dielectric withstand depending on the switchgear architecture.

Please contact your sales representative to receive EasyPact EXE integration guide with more information.



Connection terminal without field deflector



Connection terminal with field deflector

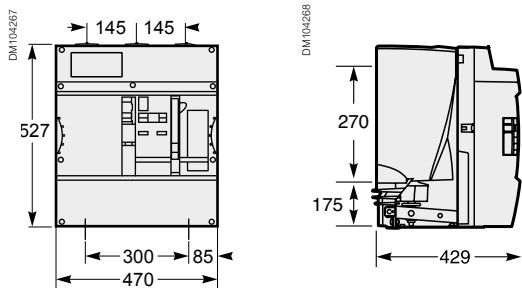


Fixed Circuit Breaker (CB)

Dimensions

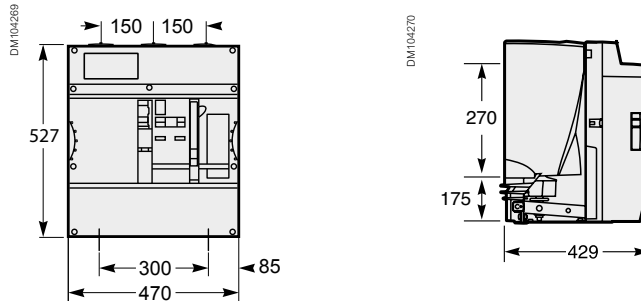
Phase distance 145 mm

Up to 17.5 kV / 31.5 kA / 1 250 A



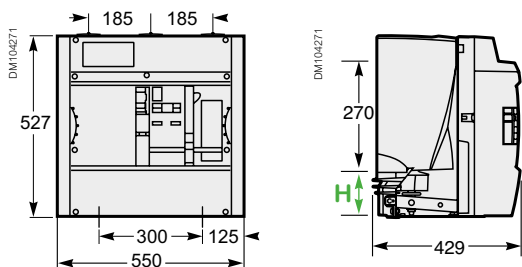
Phase distance 150 mm

Up to 17.5 kV / 31.5 kA / 1 250 A



Phase distance 185 mm

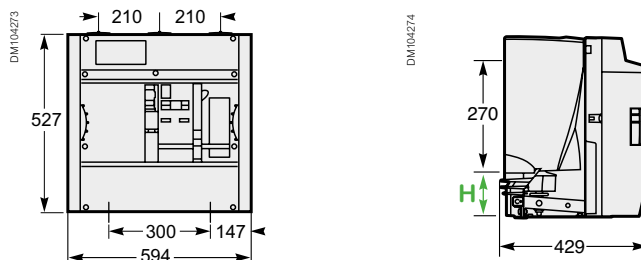
Up to 17.5 kV / 31.5 kA / 2 000 A



- H**
- 175 mm up to 1 250 A
 - 158 mm for 1 600 A and 2 000 A

Phase distance 210 mm

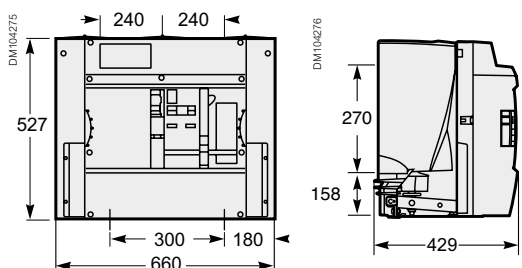
Up to 17.5 kV / 31.5 kA / 2 500 A



- H**
- 175 mm up to 1 250 A
 - 158 mm for 1 600 A, 2 000 A and 2 500 A

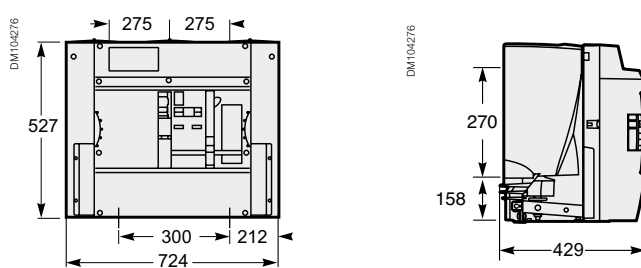
Phase distance 240 mm

Up to 17.5 kV / 31.5 kA / 2 500 A



Phase distance 275 mm

Up to 17.5 kV / 31.5 kA / 2 500 A



The full set of 3D models is available at:

www.schneider-electric.com/en/product-range-download/63374-easypact-exe#tabs-top

Withdrawable Circuit Breaker (CB) - Tulip Contact

Main characteristics

According to IEC 62271-100

Designation		Dimensions and electrical characteristics					
Phase distance (mm)				150	210	210	275
Rated voltage	Ur	kV	12	•	•	•	•
			17.5	(2)	(2)	(2)	(2)
Rated frequency	fr	Hz	50/60	•	•	•	•
Rated short duration power frequency withstand voltage ⁽¹⁾	Ud	kV	28	•	•	•	•
			38	(2)	(2)	(2)	(2)
Rated lightning impulse withstand voltage	Up	kV	75	•	•	•	•
			95	(2)	(2)	(2)	(2)
Rated short-circuit breaking current	Isc	kA	20	•	•		
			25	•	•	•	•
			31.5	•	•	•	•
Rated duration of short-circuit	tk	s	3	•	•	•	•
Rated normal current	Ir	A	630	•	•		
			800	•	•		
			1 250	•	•		
			1 600			•	
			2 000			•	
			2 500				•

Additional characteristics according to IEC 62271-100 are listed in the common characteristics section.
(1) Contact us for 42 kV - 5 min.
(2) Contact your Schneider Electric sales representative for more information.

Tulip-type contacts

The shape of EasyPact EXE contact is tulip-type. The size depends on the rated current to provide a maximum contact surface optimizing heat dissipation and offering good compensation characteristics for electrodynamic forces. The Panel Builder must provide fixed type contacts with the correct shape, tolerance, and material characteristics compatible with the EasyPact EXE tulip-type contacts.

Arms

The shape and size of EasyPact EXE arm depend on the rated lightning impulse voltage, the rated normal current, and the racking trolley stroke.

Racking device

EasyPact EXE racking device enables Panel Builder to design switchgear solutions with enhanced safety features. It has a robust interlocking system with the switchgear door, the removable LV plug, the circuit-breaker and the earthing switch. It can be equipped with accessories such as keylocks, padlocks, and an electric motor for remote racking from the control room.

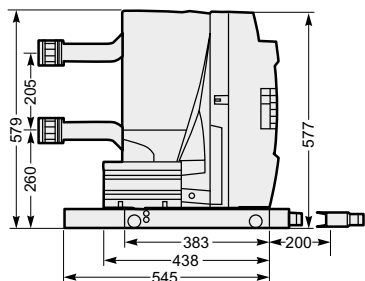
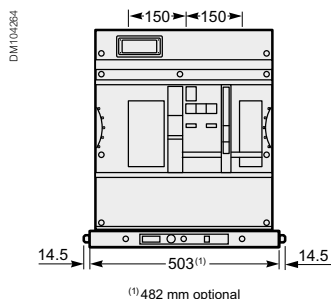


Withdrawable Circuit Breaker (CB) - Tulip Contact

Dimensions

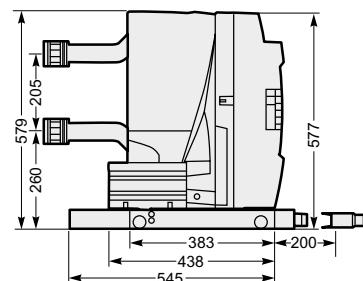
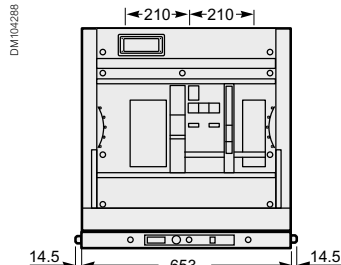
Phase distance 150 mm

Up to 17.5 kV / 31.5 kA / 1 250 A



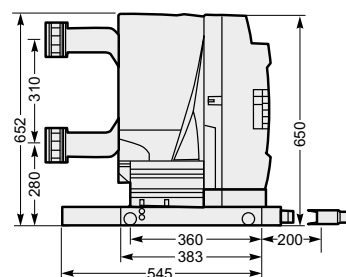
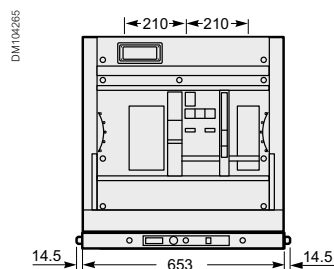
Phase distance 210 mm

Up to 17.5 kV / 31.5 kA / 1 250 A



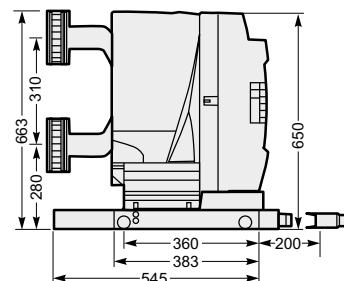
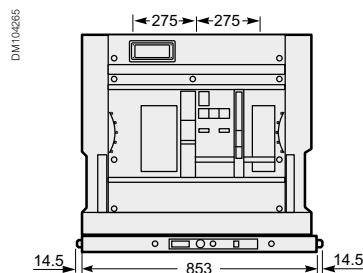
Phase distance 210 mm

Up to 17.5 kV / 31.5 kA / 2 000 A



Phase distance 275 mm

Up to 17.5 kV / 31.5 kA / 2 500 A



The full set of 3D models is available at:

www.schneider-electric.com/en/product-range-download/63374-easypact-exe#tabs-top

Withdrawable Disconnecting Device (DD) - Tulip Contact

Main characteristics



This device allows disconnection of the upstream and downstream circuits in the cubicle. It is installed in the same location as the withdrawable circuit breaker in the switchgear compartment, with the option to rack the device remotely. It includes a device to lock it in the service position.

According to IEC 62271-200

Designation		Dimensions and electrical characteristics					
Phase distance (mm)				150	210	210	275
Rated voltage	Ur	kV	12	•	•	•	•
			17.5	(2)	(2)	(2)	(2)
Rated frequency	fr	Hz	50/60	•	•	•	•
Rated short duration power frequency withstand voltage ⁽¹⁾	Ud	kV	28	•	•	•	•
			38	(2)	(2)	(2)	(2)
Rated lightning impulse withstand voltage	Up	kV	75	•	•	•	•
			95	(2)	(2)	(2)	(2)
Rated short-time withstand current	Ik	kA	31.5	•	•	•	•
Rated peak withstand current	Ip	kA	82	•	•	•	•
Rated duration of short-circuit	tk	s	3	•	•	•	•
Rated normal current	Ir	A	1 250	•	•		
			2 000			•	
			2 500				•

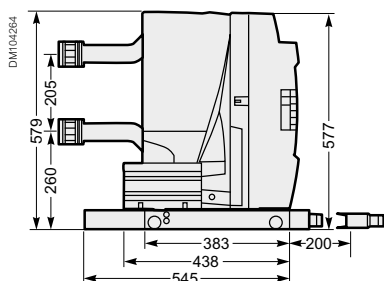
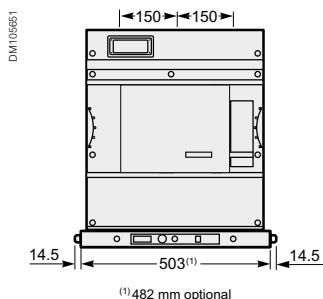
(1) Contact us for 42 kV - 5 min.
(2) Contact your Schneider Electric sales representative for more information.

Withdrawable Disconnecting Device (DD) - Tulip Contact

Dimensions

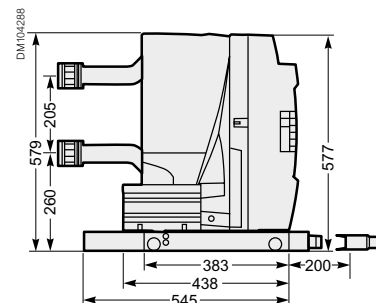
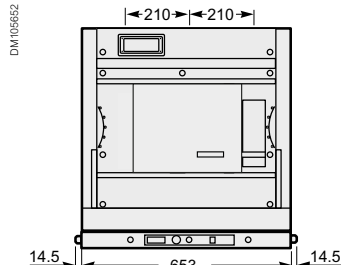
Phase distance 150 mm

Up to 17.5 kV / 31.5 kA / 1 250 A



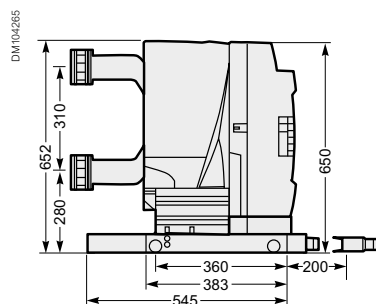
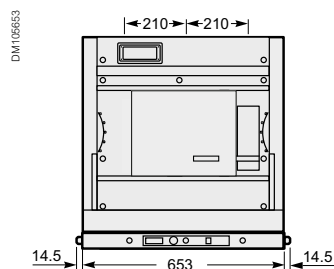
Phase distance 210 mm

Up to 17.5 kV / 31.5 kA / 1 250 A



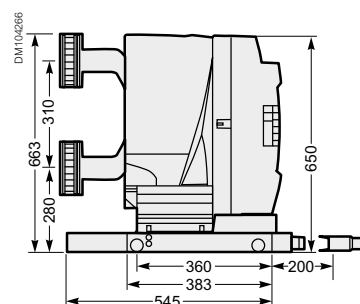
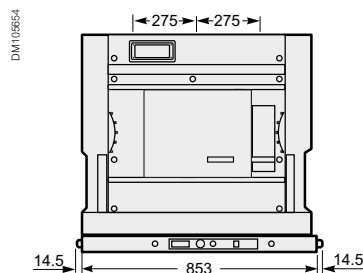
Phase distance 210 mm

Up to 17.5 kV / 31.5 kA / 2 000 A



Phase distance 275 mm

Up to 17.5 kV / 31.5 kA / 2 500 A



The full set of 3D models is available at:

www.schneider-electric.com/en/product-range-download/63374-easypact-exe#tabs-top

General characteristics

Service and storage conditions

Normal service conditions

According to IEC 62271-1

EasyPact EXE has been designed to operate in the following conditions	
Ambient air temperature	<ul style="list-style-type: none">• Minimum value: -25°C• Maximum value: 40°C• Average measured over 24 hours period $\leq 35^{\circ}\text{C}$
Altitude	Less than or equal to 1 000 m above sea level (derating coefficient to be applied for altitudes higher than 1 000 m)
Atmosphere	No dust, smoke, salt, corrosive or flammable gas or vapor
Humidity	<ul style="list-style-type: none">• Average relative humidity over 24 hours $\leq 95\%$• Average relative humidity over 1 month $\leq 90\%$• Average vapor pressure over 24 hours $\leq 2.2\text{ kPa}$• Average vapor pressure over 1 month $\leq 1.8\text{ kPa}$

Other service conditions

If operated beyond the normal service conditions, the circuit breaker is submitted to accelerated aging.

The circuit breaker may only be used under conditions other than the normal service conditions with express written permission from Schneider Electric.

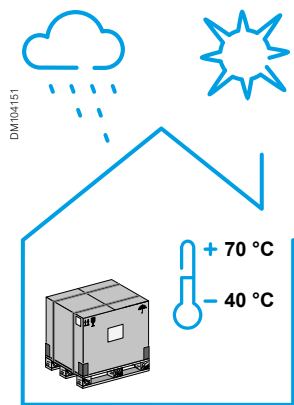
Storage

In order to preserve all of the device's characteristics when stored for prolonged periods, we recommend to store the device in its original packaging, in dry conditions, and sheltered from the sun and rain at a temperature between -40°C and $+70^{\circ}\text{C}$.

The maximum storage period is 12 months.

If the device was stored:

- Between 6 and 12 months : perform basic preventive maintenance to ensure a correct device operation
- Beyond 12 month: Contact your Schneider Electric Service local representative for device check-up.



General characteristics

Electrical characteristics (CB)

PM1059802



According to IEC 62271-100

Common characteristics		12 kV	17.5 kV
Rated short-time withstand current (Ik/tk)	kA/3s (50/60 Hz)	= Isc	= Isc
Rated operating sequence	O-3 min - CO-3 min - CO	•	•
	O-0.3 s - CO-3 min - CO	•	•
	O-0.3 s - CO-15 s - CO	•	•
Operating times	Opening	< 51 ms	< 51 ms
	Breaking	< 66 ms	< 66 ms
	Closing	< 71 ms	< 71 ms
Mechanical endurance	Class	M2	M2
Electrical endurance	Class	E2	E2
Rated line-charging breaking current	A-class	10-C2	10-C1
Rated cable-charging breaking current	A-class	25-C2	31.5-C1

Mechanical endurance

EasyPact EXE installed in normal service condition and with preventive maintenance program is designed up to :

Circuit Breaker	MCH	MX / XF / MN release	Mechanical interlocks
10 000 operation cycles / 30 years	10 000 charging operations	10 000 operations	2 000 operation cycles

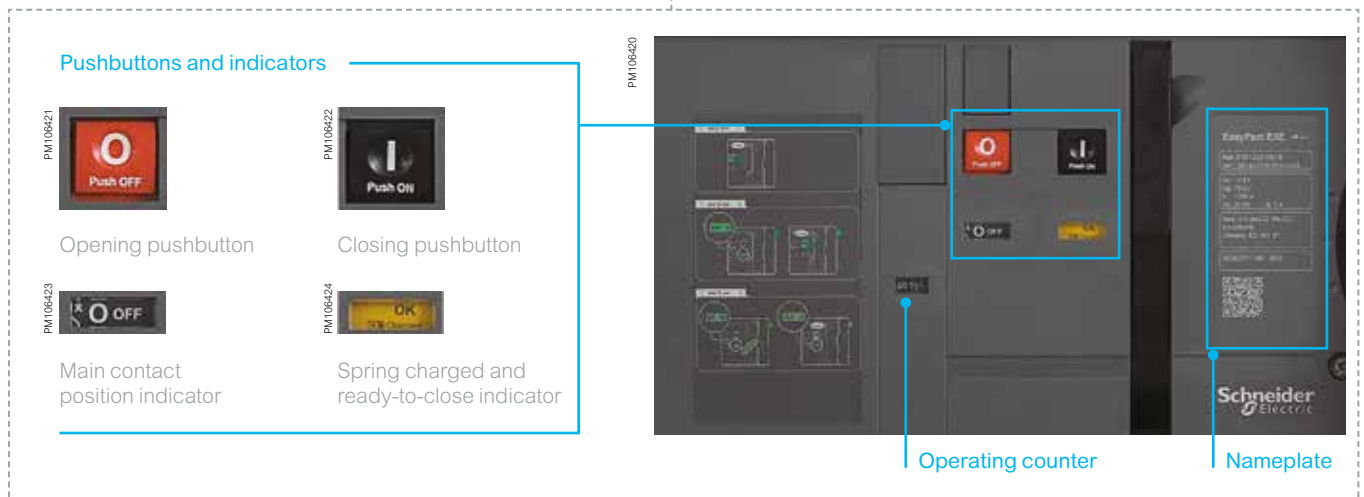
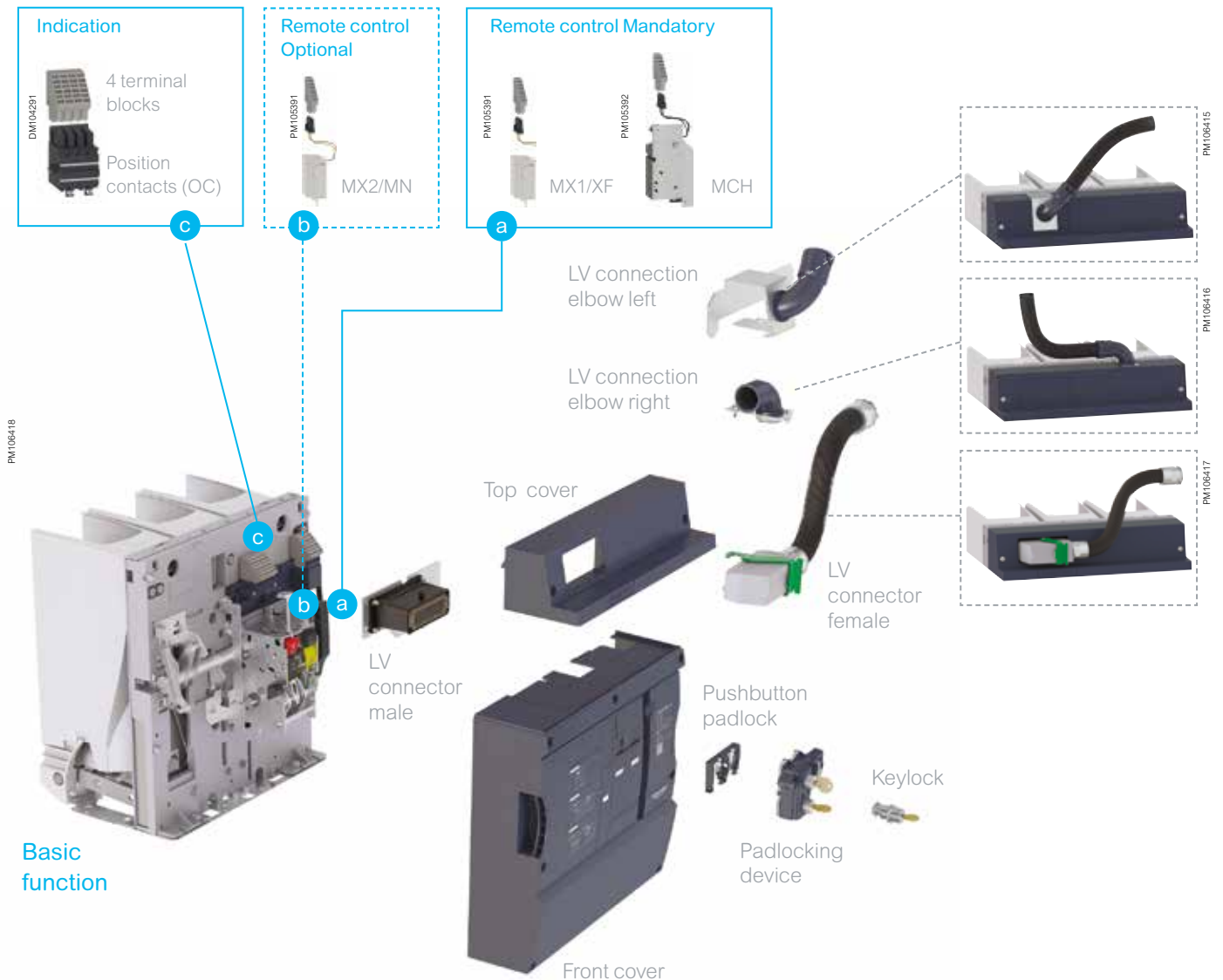
Functions and characteristics

Functions and characteristics

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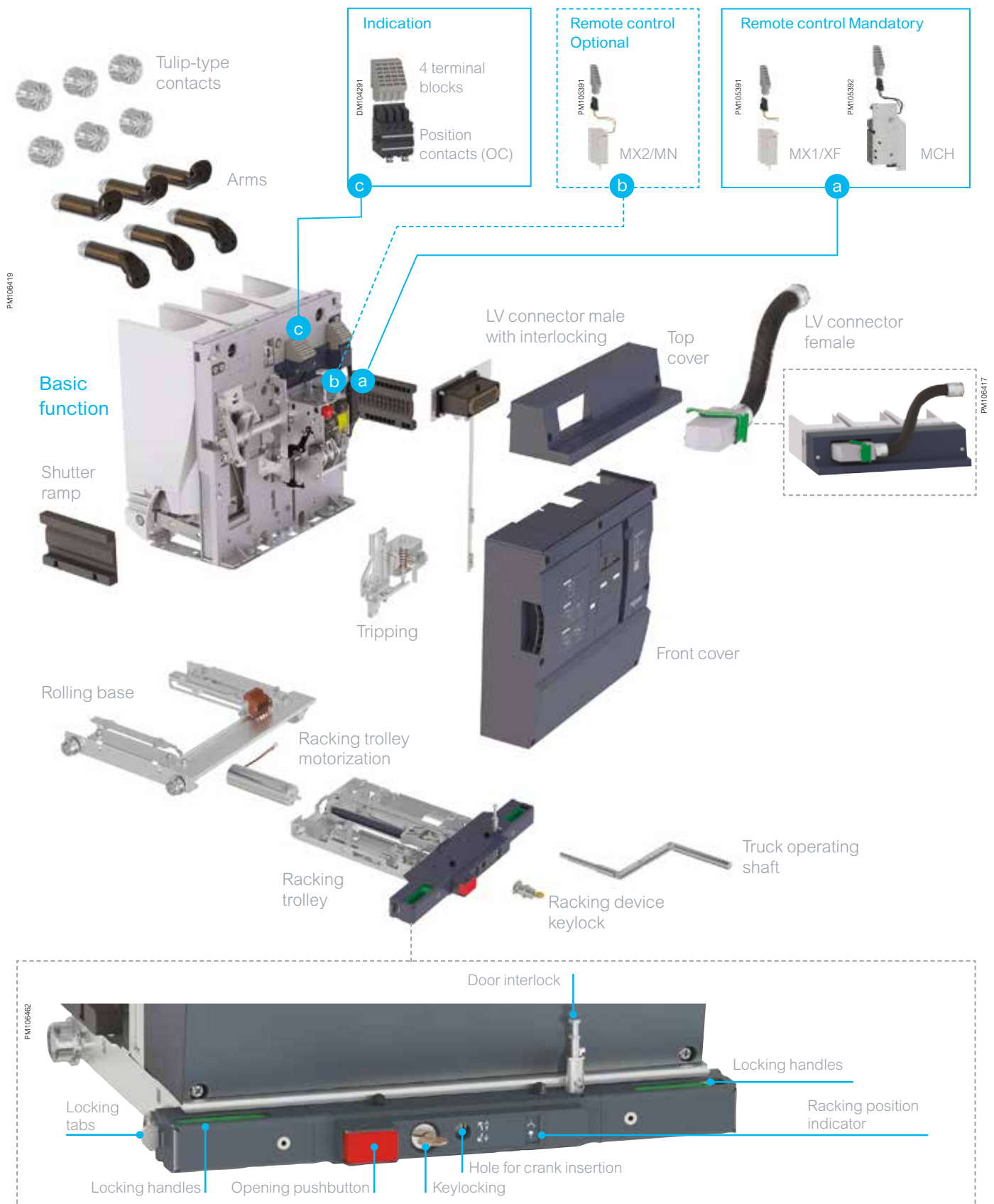
Overview

Fixed Circuit Breaker



Overview

Withdrawable Circuit Breaker



Remote control auxiliaries

Mandatory auxiliaries



The remote control auxiliaries comprises an electric motor (MCH) a shunt closing release (XF), and a shunt opening release (MX1)

Electric motor (MCH)

The electric motor operates to charge the closing spring as soon as it is connected to the auxiliary power supply. This allows the circuit breaker to close after opening according to the rated operating sequence.

A lever is located on the front of the circuit breaker that enables the closing spring to be charged manually if the auxiliary power supply is unavailable.

The electric motor is equipped with an electrical contact to indicate the «spring charged» status of the mechanism.

The electric motor includes a gear reducer.

Characteristics	
Power supply	<ul style="list-style-type: none">DC: 24-30 V, 48-60 V, 110-130 V, 200-250 VAC (50 Hz/60 Hz): 48-60 V, 100-130 V, 200-240 V
Operating range	0.85 to 1.1 Ua
Consumption (VA or W)	180
Motor overcurrent	2 to 3 In for 0.1 s
Charging time	≤7 s
CH contact	10 A/240 V

Shunt closing release (XF)

A shunt closing release operates to close the circuit breaker when the voltage at the terminals of the release is between 85% and 110% of its rated voltage. The closing release is designed to withstand permanent power supply.

Characteristics					
Power supply	<ul style="list-style-type: none">DC: 24-30 V, 48-60 V, 100-130 V, 200-250 VAC (50Hz/60Hz): 24 V, 48 V, 100-130 V, 200-250 V				
Operating range	0.85 to 1.1 Ua				
Consumption (VA or W)	<table><tr><td>Triggering</td><td>200 (for 200 ms)</td></tr><tr><td>Latched</td><td>4.5</td></tr></table>	Triggering	200 (for 200 ms)	Latched	4.5
Triggering	200 (for 200 ms)				
Latched	4.5				

Shunt opening release (MX1)

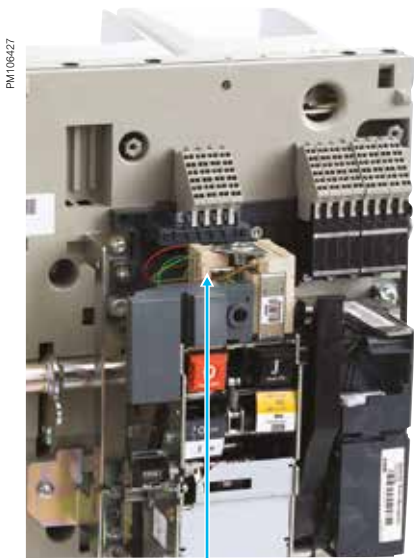
A shunt opening release operates to open the circuit breaker when the voltage at the terminals of the release is between 70% and 110% (in the case of direct current)- or between 85% and 110% (in the case of alternative current)- of its rated voltage. The opening release is designed to withstand permanent power supply and to lock the circuit breaker in the «open» position as long as the voltage is maintained at its terminals.

Characteristics					
Power supply	<ul style="list-style-type: none">DC: 24-30 V, 48-60 V, 100-130 V, 200-250 VAC (50 Hz/60 Hz): 24 V, 48 V, 100-130 V, 200-250 V				
Operating range	<ul style="list-style-type: none">DC: 0.7 to 1.1 UaAC: 0.85 to 1.1 Ua				
Consumption (VA or W)	<table><tr><td>Triggering</td><td>200 (for 200 ms)</td></tr><tr><td>Latched</td><td>4.5</td></tr></table>	Triggering	200 (for 200 ms)	Latched	4.5
Triggering	200 (for 200 ms)				
Latched	4.5				

Remote control auxiliaries

Optional auxiliaries

EasyPact EXE can be equipped with a second opening release that can be either a shunt opening release or an undervoltage release.



Shunt opening release MX2 or Under voltage release MN



Shunt opening release MX2



Undervoltage release MN

Second shunt opening release (MX2)

The second shunt opening release operates to open the circuit breaker when the voltage at the terminals of the release is between 70% and 110% (in the case of direct current)- or between 85% and 110% (in the case of alternative current)- of its rated voltage.

The opening release is designed to withstand permanent power supply and to lock the circuit breaker in the "open" position as long as the voltage is maintained at its terminals.

Characteristics		
Power supply	• DC: 24-30 V, 48-60V, 100-130 V, 200-250 V	
	• AC (50Hz/60Hz): 24 V, 48 V, 100-130 V, 200-250 V	
Operating range	• DC: 0.7 to 1.1 Ua	
	• AC: 0.85 to 1.1 Ua	
Consumption (VA or W)	Triggering	200 (for 200 ms)
	Latched	4.5

Undervoltage release (MN)

The undervoltage release operates to open the circuit breaker when the voltage at the terminals of the release falls below 35% of its rated voltage, even if the fall is slow and gradual.

The undervoltage release does not operate the circuit breaker when the voltage at its terminals exceeds 70% of its rated supply voltage. The area between 35% and 70% is uncertain, and the undervoltage release might operate to open the circuit breaker.

The closing of the circuit breaker is possible when the voltage at the terminals of the release is equal to or exceeds 85% of its rated voltage. On the other hand, the closing of the circuit breaker is impossible as long as the voltage at the terminals is below 35% of the rated supply voltage.

Characteristics		
Power supply	• DC: 24-30 V, 48-60 V, 100-130 V, 200-250 V	
	• AC (50Hz/60Hz): 24 V, 48 V, 100-130 V, 200-250 V	
Operating range	Opening	0.35 to 0.7 Ua
	Closing	0.85 Ua
Consumption (VA or W)	Triggering	200 (for 200 ms)
	Latched	4.5

Release combination table

MCH	•	•	•
XF	•	•	•
MX1	•	•	•
MX2		•	
MN			•

Remote control auxiliaries

Indication

PM106429



Rotary type contacts (OC)

Position contacts (OC)

EasyPact EXE is equipped with one block of four position contacts as standard, and the Panel Builder may add one or two additional blocks of four contacts. The maximum number of position contacts is twelve.

Characteristics			
Standard delivery	1 (1 block of 4 contacts)		
Maximum quantity	3 (3 blocks of 4 contacts)		
Breaking capacity (A)	Standard	Min. load: 100 mA/24 V	
Cos φ: 0.3	V AC	240/380	10/6
	V DC	24/48	10/6 *
		125	10/6
		250	3

* standard contacts : 10A; optional contacts : 6A (temperature derating)

PM106430



"Ready to close" PF contact

«Ready to close» contact (PF)

A «ready to close» contact (PF) indicates that the circuit breaker is ready to close in the following conditions:

- The circuit breaker contacts are open
- The operating mechanism closing spring is charged
- The opening pushbutton is not activated (by a keylock or manually)
- The opening shunt release is not energized
- The undervoltage release, if present, is energized

EasyPact EXE is always equipped with 1 «ready to close» contact (PF) for remote control.

Characteristics			
Standard delivery	1		
Maximum quantity	1		
Breaking capacity (A)	Standard	Min. load: 100 mA/24 V	
Cos φ: 0.3	V AC	240/380	5
	V DC	24/48	3
		125	0.3
		250	0.15

PM106431



Operation counter (CDM)

Operation counter (CDM)

An operation counter counts the number of operating cycles (close-open) that the device has carried out.

EasyPact EXE is always delivered with an operation counter showing the number of close-open cycles that have been performed for the factory routine test (usually 50).

Withdrawability

Racking Device

The EasyPact EXE withdrawable version requires a racking device, arms, and tulip-type contacts for connection to the switchgear power circuit, and a removable LV plug to connect auxiliary circuits.

EasyPact EXE racking function

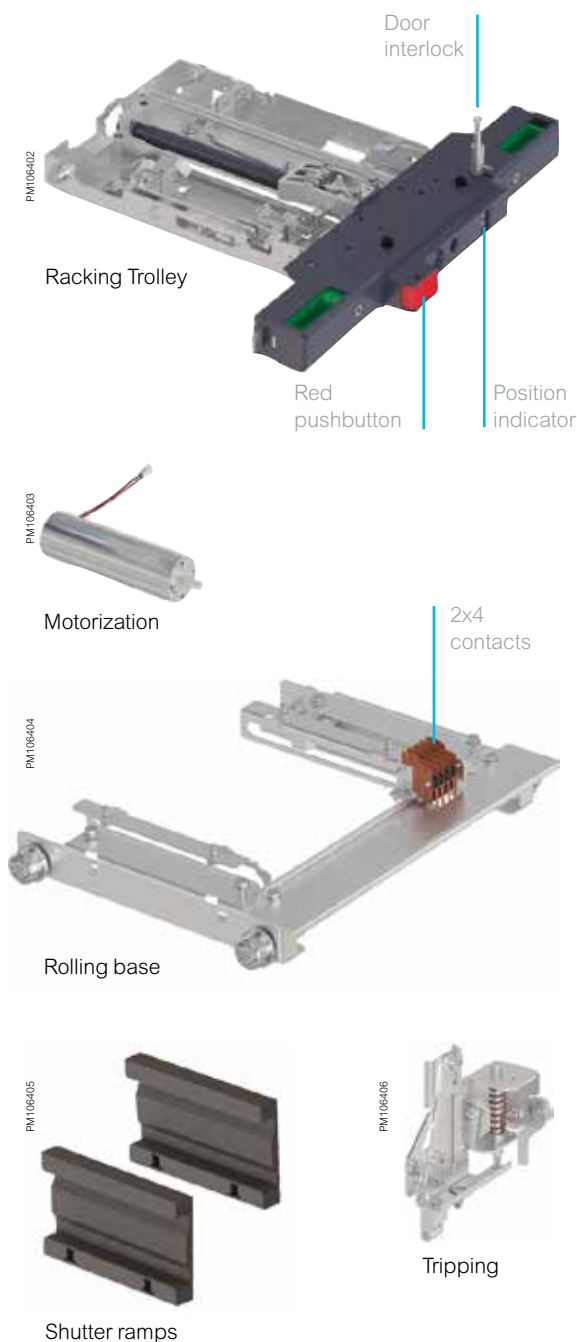
EasyPact EXE racking device enables Panel Builder to design switchgear solutions with enhanced safety features. It has a robust interlocking system with the switchgear door, the removable LV plug, the circuit-breaker and the earthing switch. It can be equipped with accessories such as keylocks, padlocks, and an electric motor for remote racking from the control room.

The Racking Device is composed of 4 elements:

- Racking Trolley
- Rolling Base
- Shutter Ramp
- Tripping

The EasyPact EXE racking function comprises:

- A rolling base equipped with 4 wheels for moving on the rails located at the bottom of the circuit breaker compartment, and with shutter ramps to operate the shutter mechanism according to the racking trolley position
- A system to attach the racking trolley to the switchgear frame
- A racking trolley with a threaded shaft that rotates to move the circuit breaker inside the circuit breaker compartment
- A red pushbutton that simultaneously trips the circuit breaker, opens access for the racking lever to connect to the drive system, and maintains the circuit breaker tripped until it reaches the final position, either connected or disconnected
- A mechanical position indicator on the front showing the circuit breaker disconnected, intermediate, and in service status
- 2 sets of 4 contacts to indicate electrically if the circuit breaker is in service position, intermediate position or in disconnected position
- A set of mechanical parts, called Tripping fixed on the mechanical support, to interlock the racking trolley with the following equipment:
 - LV connector
 - Circuit breaker compartment door
 - Earthing switch
 - Circuit breaker
- An optional motor drive that rotates to move the circuit breaker inside the circuit breaker compartment
- Optional keylock and/or padlock :
 - A keylock system to lock the racking trolley in the disconnected position
 - A padlock system to prevent any unwanted operation on the red pushbutton



Locking

Fixed Circuit Breaker

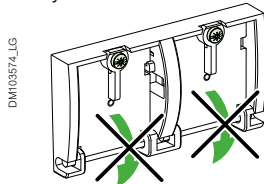
Easypact EXE can be equipped with locking in permanent position either by padlock or by keylock and with pushbutton padlock.

Screen for pushbutton padlocking

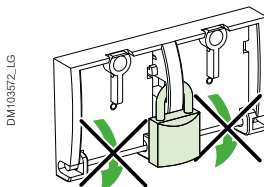
An optional transparent screen can prevent access to the opening and/or closing pushbuttons on the circuit breaker.

Locking is achieved by means of one of the following:

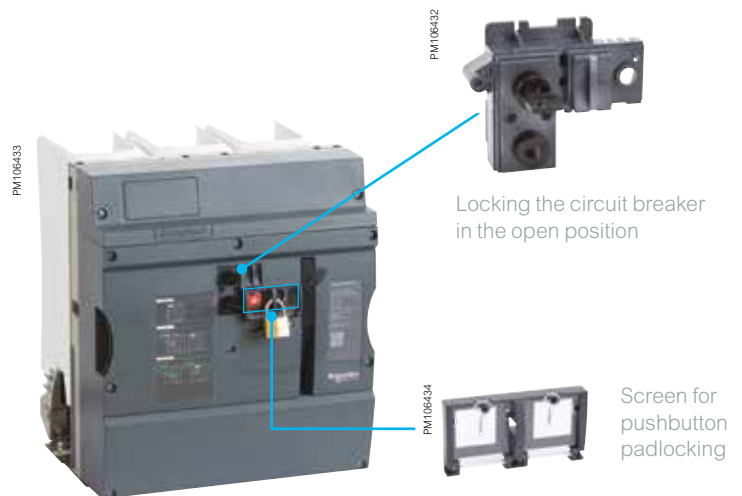
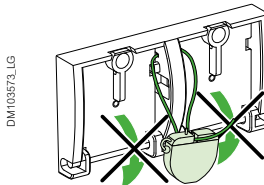
- By 2 screws



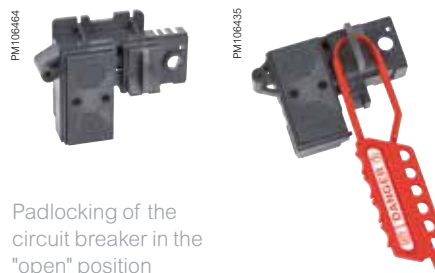
- By 3 padlocks
(not supplied with the circuit breaker)



- By a lead seal
(not supplied with the circuit breaker)



Locking in permanent open position by padlock



Padlocking of the circuit breaker in the "open" position

The circuit breaker is locked in the "open" position by maintaining the opening pushbutton in the engaged position with a padlock holder for 1 to 3 padlocks (not supplied).

Locking in permanent open position by keylock

The circuit breaker is locked in the "open" position by maintaining the opening pushbutton in the engaged position with a keylock device with the following options:

- 1 single keylock supplied with 2 identical keys
- 1 single keylock for the circuit breaker supplied with 1 key, plus 1 identical keylock delivered separately to be mounted on the device to be interlocked with the circuit breaker, using the key supplied for the circuit breaker.



Keylocking of the circuit breaker in the "open" position



Flat key



Cylindrical key

The key is free after locking. The key can be used to operate or give access to remote devices (Earthing switch, Transformer ...).

Locking

Withdrawable Circuit Breaker and Disconnecting Device

Locking the Racking Device

Locking the racking device red pushbutton



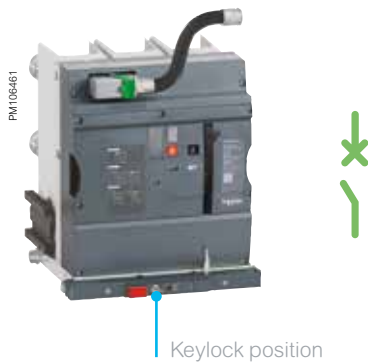
The racking device can be locked in service or disconnected positions by using a padlock.

When the padlock is locked, the electrical control of the device is still possible.

This locking prevents any unwanted opening of the device or any manual racking-in / racking-out movement.

Withdrawable Circuit Breaker

Locking the racking device in disconnected/test position



The racking device can be locked in disconnected/test position by using a key lock.

When locked, the mechanical and electrical control of the racking device is impossible.

The key is free after locking. The key can be used to operate or give access to remote devices (Earthing switch, Transformer ...).

Disconnecting Device

Locking the racking device in service position



The racking device can be locked in service position by using a key lock.

When locked, the mechanical and electrical control of the racking device is impossible.

The key is free after locking. The key can be used with associated circuit breaker (coupling CB, upstream incomer CB ...).

LV connection

Fixed Circuit Breaker



Elbow on the right



Elbow on the left



LV terminal

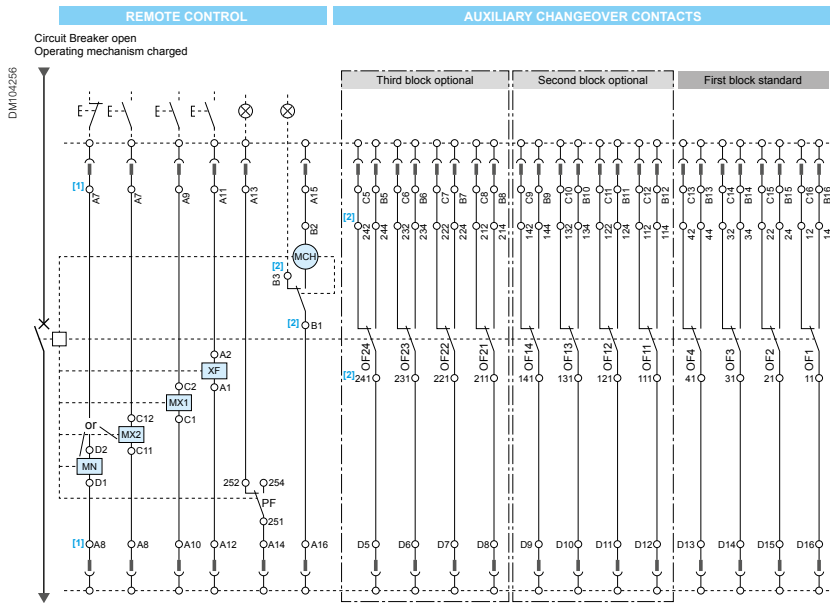


64 pin male connector

EasyPact EXE is equipped with a set of terminal blocks to connect LV wiring to the circuit breaker auxiliary circuit. An elbow enables the wiring to pass through the circuit breaker front cover on either the right or the left side.

An optional flexible LV connector enables connection of the circuit breaker auxiliary circuits to the switchgear control cabinet in any circuit breaker positions: disconnected or service. It consists of a 64-pin male connector mounted on the frame of the circuit breaker and a removable 64-pin female connector mounted on a 525 mm flexible duct that is attached to the switchgear frame to be connected to the LV cabinet.

Fixed version wiring diagram example



- [1] LV plug pin number (if applicable)
- [2] Contact number of circuit breaker terminal blocks

LV connection

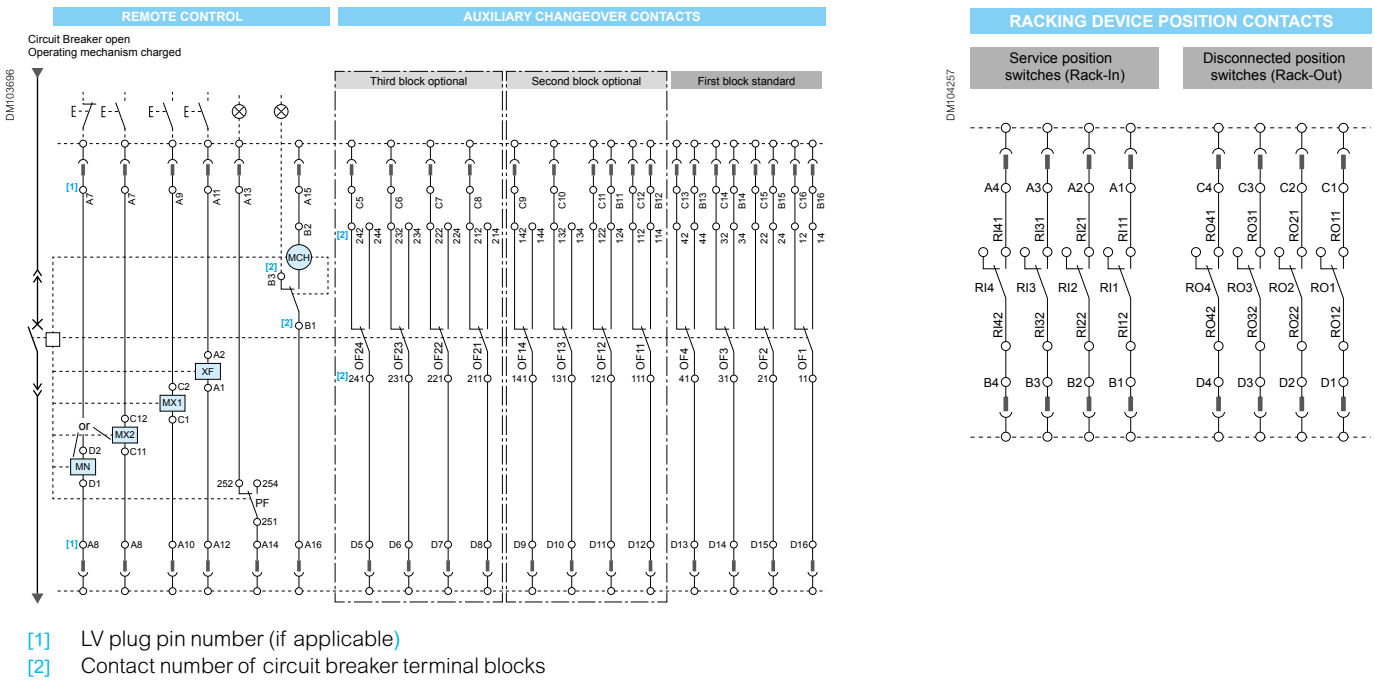
Withdrawable Circuit Breaker



The LV connector collects electrical orders and status information from the circuit breaker terminal blocks and from the racking trolley terminal blocks. The number of pins in the LV connector (maximum 64 pins) may limit the number of available position contacts for the switchgear LV cabinet.

For the withdrawable version, the LV connector is interlocked with the racking trolley and the operating mechanism to prevent any manual closing order without the LV connector latched onto the circuit breaker frame.

Withdrawable version wiring diagram example



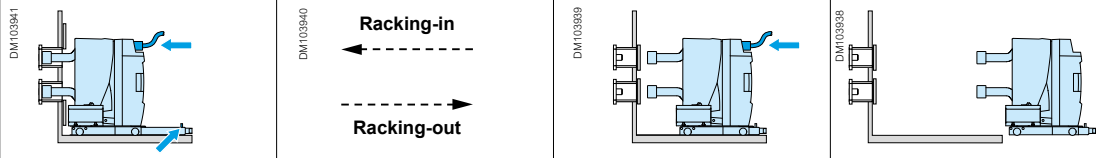
Racking Device interlocking

The following table describes the interlocking functions available on the withdrawable version of EasyPact EXE.

How to use the table

Each box describes the possible status of parts interlocked with the circuit breaker at a given status.

- **Removed:** The circuit breaker is extracted from the switchgear
- **Disconnected/test:** The circuit breaker is inside the switchgear compartment; its power connections are separated from the switchgear contacts by shutters and the LV auxiliary circuits are connected
- **Intermediate:** The circuit breaker is moving from the disconnected position to the service position or vice versa
- **Service:** The circuit breaker power connections are connected to the switchgear contacts, the LV auxiliary circuits are connected, and the switchgear door is closed and locked

Withdrawable circuit breaker positions				
				
Parts	Service	Intermediate	Disconnected/test	Removed
Locking tabs	Locked	Locked	Locked / Unlocked	
LV connection plug	Connected	Connected	Connected / Disconnected	Disconnected
Compartment door	Closed and Locked	Closed and Locked	Locked / Unlocked	Unlocked
Circuit Breaker main contacts position	OPEN / CLOSED	OPEN	OPEN / CLOSED	OPEN / CLOSED
Racking device keylocking	Key removal impossible	Key removal impossible	Key removal possible to allow consignment	Key removal possible to allow consignment
Earthing switch mechanical link position	Earthing Switch OPEN	Earthing Switch OPEN	Earthing Switch OPEN	
			Earthing Switch CLOSED	
Shutters	OPEN	OPERATING	CLOSED	

Product references

Product references

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Commercial reference numbering system

Commercial number composition

For circuit breaker, disconnecting device, and earthing device.

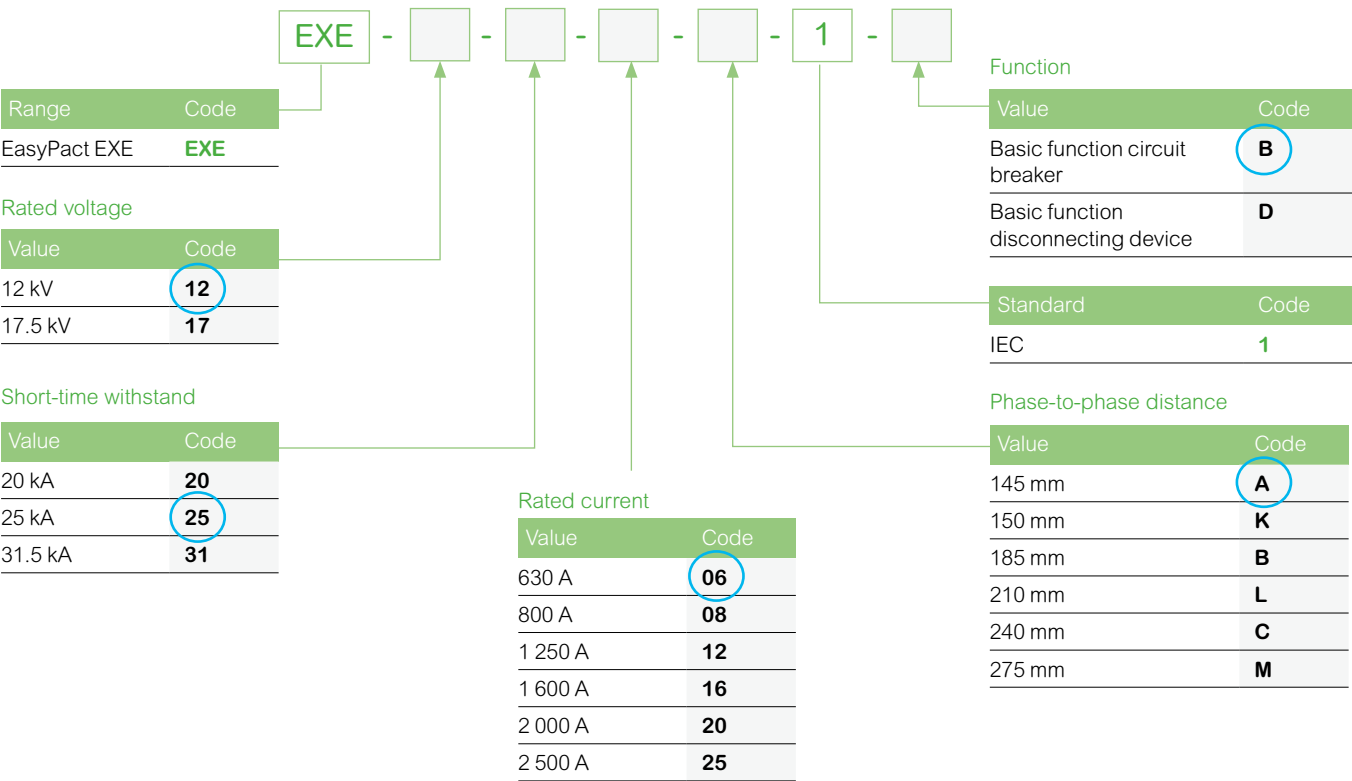
Example:

Basic function for VCB
12 kV - 25 kA - 630A - pd = 145 mm - IEC - Basic function Circuit Breaker

EXE - 12 - 25 - 06 - A - 1 - B

The commercial number composition is: **EXE122506A1B**

Please contact us for other versions such as GOST, etc.



Basic function Circuit Breaker (CB)

12 kV and 17.5 kV - 20 kA



An EasyPact EXE Basic function Circuit Breaker (CB) consists of:

- The basic function circuit breaker
- 1 ready to close contact PF with 1 terminal block
- 1 block of 4 auxiliary contacts with 4 terminal blocks
- 4 additional terminal blocks
- 1 operating counter
- 1 receipt guide

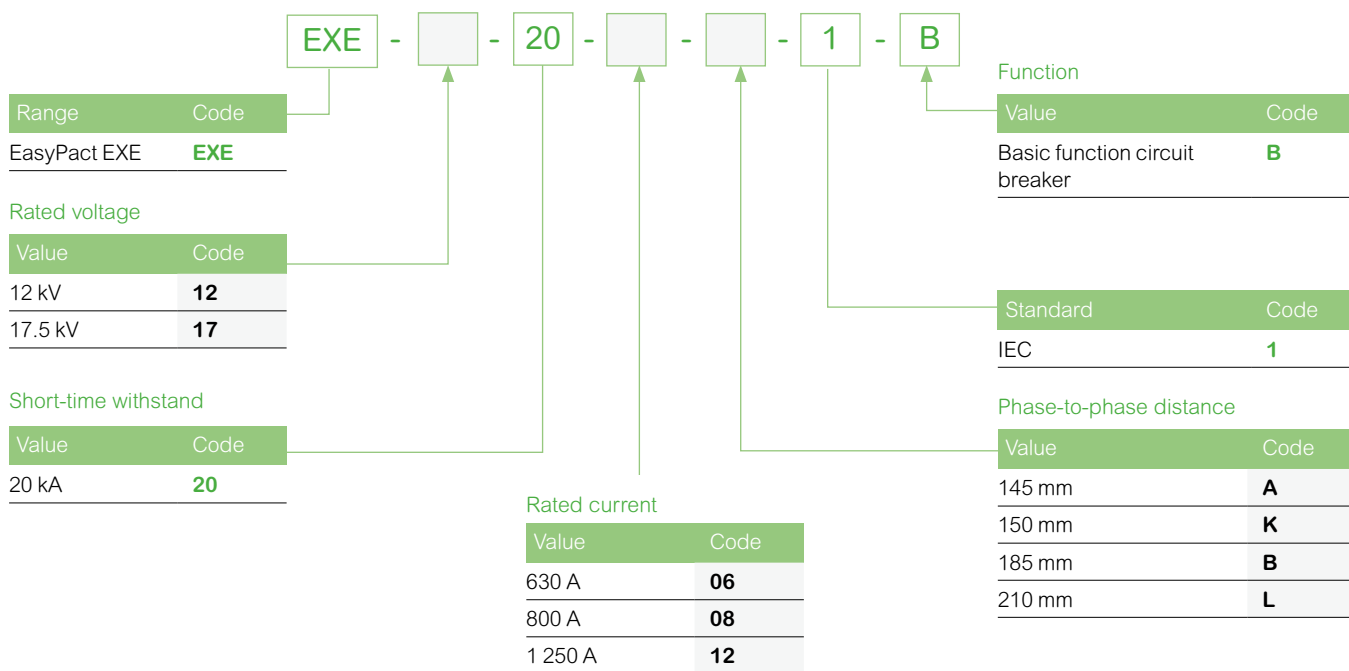
Additional options may be added, using the catalog product references.

Basic function							
Phase distance (mm)		145	185	240	150	210	275
12 kV	630 A	EXE122006A1B	EXE122006B1B	-	EXE122006K1B	EXE122006L1B	-
	800 A	EXE122008A1B	EXE122008B1B	-	EXE122008K1B	EXE122008L1B	-
	1 250 A	EXE122012A1B	EXE122012B1B	-	EXE122012K1B	EXE122012L1B	-
	1 600 A	-	-	-	-	-	-
	2 000 A	-	-	-	-	-	-
	2 500 A	-	-	-	-	-	-
17.5 kV	630 A	EXE172006A1B	EXE172006B1B	-	EXE172006K1B	EXE172006L1B	-
	800 A	EXE172008A1B	EXE172008B1B	-	EXE172008K1B	EXE172008L1B	-
	1 250 A	EXE172012A1B	EXE172012B1B	-	EXE172012K1B	EXE172012L1B	-
	1 600 A	-	-	-	-	-	-
	2 000 A	-	-	-	-	-	-
	2 500 A	-	-	-	-	-	-

Notes:

- Contact your Schneider Electric sales representatives for Withdrawable Circuit Breaker at 17,5 kV
- The 12 kV basic function may be used for 7.2 kV rated voltage
- Please contact your Schneider Electric sales representative for more information

Check your commercial number:



Basic function Circuit Breaker (CB)

12 kV and 17.5 kV - 25 kA



An EasyPact EXE Basic function Circuit Breaker (CB) consists of:

- The basic function circuit breaker
- 1 ready to close contact PF with 1 terminal block
- 1 block of 4 auxiliary contacts with 4 terminal blocks
- 4 additional terminal blocks
- 1 operating counter
- 1 receipt guide

Additional options may be added, using the catalog product references.

Basic function							
Phase distance (mm)		145	185	240	150	210	275
12 kV	630 A	EXE122506A1B	EXE122506B1B	-	EXE122506K1B	EXE122506L1B	-
	800 A	EXE122508A1B	EXE122508B1B	-	EXE122508K1B	EXE122508L1B	-
	1 250 A	EXE122512A1B	EXE122512B1B	-	EXE122512K1B	EXE122512L1B	-
	1 600 A	-	EXE122516B1B	-	-	EXE122516L1B	-
	2 000 A	-	EXE122520B1B	-	-	EXE122520L1B	-
	2 500 A	-	-	EXE122525C1B	-	EXE122525L1B	EXE122525M1B
17.5 kV	630 A	EXE172506A1B	EXE172506B1B	-	EXE172506K1B	EXE172506L1B	-
	800 A	EXE172508A1B	EXE172508B1B	-	EXE172508K1B	EXE172508L1B	-
	1 250 A	EXE172512A1B	EXE172512B1B	-	EXE172512K1B	EXE172512L1B	-
	1 600 A	-	EXE172516B1B	-	-	EXE172516L1B	-
	2 000 A	-	EXE172520B1B	-	-	EXE172520L1B	-
	2 500 A	-	-	EXE172525C1B	-	EXE172525L1B	EXE172525M1B

Notes:

- Contact your Schneider Electric sales representatives for Withdrawable Circuit Breaker at 17,5 kV
- The 12 kV basic function may be used for 7.2 kV rated voltage
- Please contact your Schneider Electric sales representative for more information

Check your commercial number:

Range		Code	Value		Code
EasyPact EXE		EXE	Basic function circuit breaker		B
Rated voltage		Code	Standard		Code
12 kV		12	IEC		1
17.5 kV		17	Phase-to-phase distance		Code
Short-time withstand		Code	Value		Code
25 kA		25	145 mm		A
			150 mm		K
			185 mm		B
			210 mm		L
			240 mm		C
			275 mm		M
			Rated current		Code
			630 A		06
			800 A		08
			1 250 A		12
			1 600 A		16
			2 000 A		20
			2 500 A		25

Basic function Circuit Breaker (CB)

12 kV and 17.5 kV - 31.5 kA



An EasyPact EXE Basic function Circuit Breaker (CB) consists of:

- The basic function circuit breaker
- 1 ready to close contact PF with 1 terminal block
- 1 block of 4 auxiliary contacts with 4 terminal blocks
- 4 additional terminal blocks
- 1 operating counter
- 1 receipt guide

Additional options may be added, using the catalog product references.

Basic function

Phase distance (mm)	145	185	240	150	210	275
12 kV	630 A	EXE123106A1B	EXE123106B1B	-	EXE123106K1B	EXE123106L1B
	800 A	EXE123108A1B	EXE123108B1B	-	EXE123108K1B	EXE123108L1B
	1 250 A	EXE123112A1B	EXE123112B1B	-	EXE123112K1B	EXE123112L1B
	1 600 A	-	EXE123116B1B	-	-	EXE123116L1B
	2 000 A	-	EXE123120B1B	-	-	EXE123120L1B
	2 500 A	-	-	EXE123125C1B	-	EXE123125L1B
17.5 kV	630 A	EXE173106A1B	EXE173106B1B	-	EXE173106K1B	EXE173106L1B
	800 A	EXE173108A1B	EXE173108B1B	-	EXE173108K1B	EXE173108L1B
	1 250 A	EXE173112A1B	EXE173112B1B	-	EXE173112K1B	EXE173112L1B
	1 600 A	-	EXE173116B1B	-	-	EXE173116L1B
	2 000 A	-	EXE173120B1B	-	-	EXE173120L1B
	2 500 A	-	-	EXE173125C1B	-	EXE173125L1B

Notes:

- Contact your Schneider Electric sales representatives for Withdrawable Circuit Breaker at 17,5 kV
- The 12 kV basic function may be used for 7.2 kV rated voltage
- Please contact your Schneider Electric sales representative for more information

Check your
commercial number:

EXE - [] - 31 - [] - [] - 1 - B

Range	Code
EasyPact EXE	EXE

Rated voltage

Value	Code
12 kV	12
17.5 kV	17

Short-time withstand

Value	Code
31.5 kA	31

Rated current

Value	Code
630 A	06
800 A	08
1 250 A	12
1 600 A	16
2 000 A	20
2 500 A	25

Function

Value	Code
Basic function circuit breaker	B

Standard

Value	Code
IEC	1

Phase-to-phase distance

Value	Code
145 mm	A
150 mm	K
185 mm	B
210 mm	L
240 mm	C
275 mm	M

Basic function Disconnecting Device (DD)

12 kV and 17.5 kV - up to 31.5 kA



An EasyPact EXE Basic function Disconnecting Device (DD) consists of:

- The basic function Disconnecting Device
- An interlocking cam
- 1 receipt guide

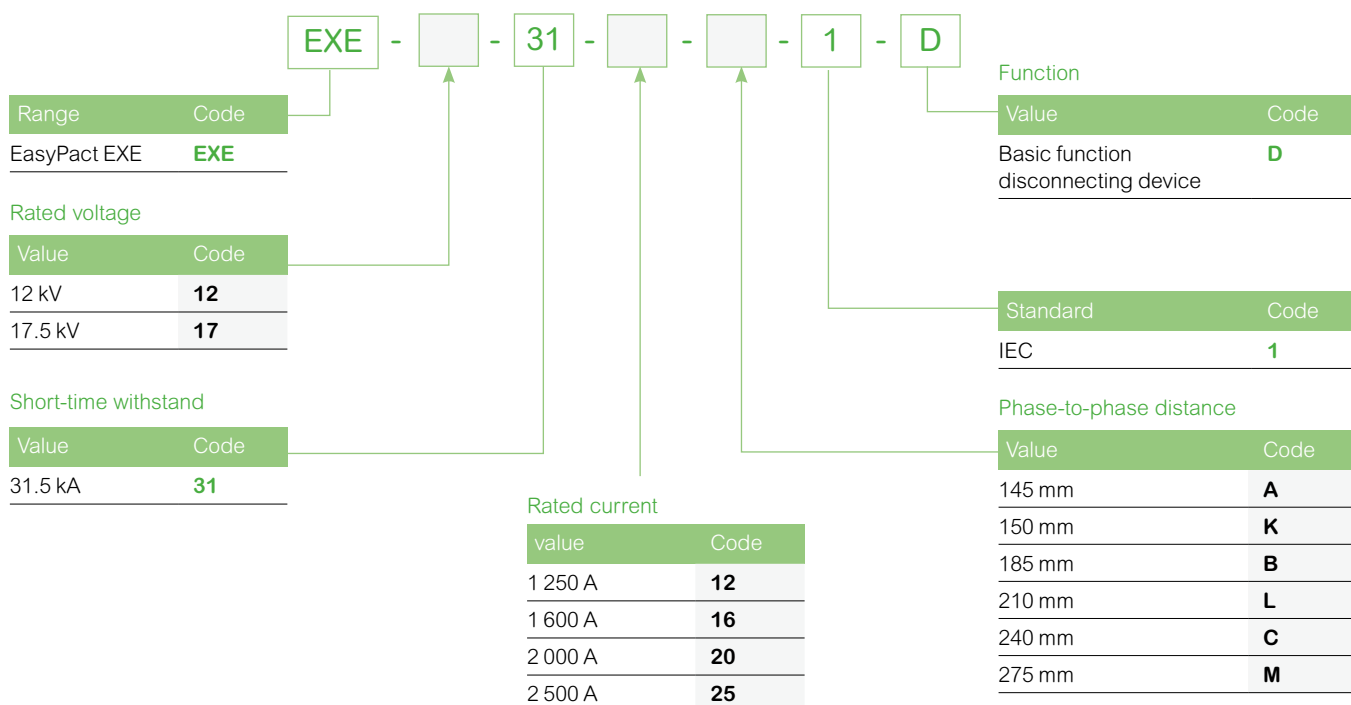
Additional options may be added, using the catalog product references.

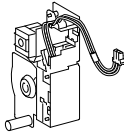
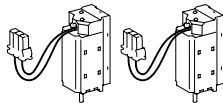
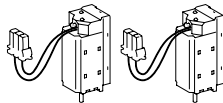
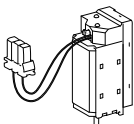
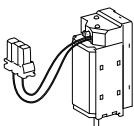
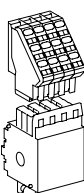
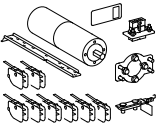
Basic function							
Phase distance (mm)	145	185	240	150	210	275	
12 kV	630 A	-	-	-	-	-	-
	800 A	-	-	-	-	-	-
	1 250 A	-	-	-	EXE123112K1D	EXE123112L1D	-
	1 600 A	-	-	-	-	-	-
	2 000 A	-	-	-	-	EXE123120L1D	-
	2 500 A	-	-	-	-	-	EXE123125M1D
17.5 kV	630 A	-	-	-	-	-	-
	800 A	-	-	-	-	-	-
	1 250 A	EXE173112A1D	EXE173112B1D	-	EXE173112K1D	EXE173112L1D	-
	1 600 A	-	EXE173116B1D	-	-	-	-
	2 000 A	-	-	-	-	EXE173120L1D	-
	2 500 A	-	-	EXE173125C1D	-	-	EXE173125M1D

Notes:

- Contact your Schneider Electric sales representatives for Disconnecting Device at 17,5 kV
- The 12 kV basic function may be used for 7.2 kV rated voltage
- Please contact your Schneider Electric sales representative for more information

Check your commercial number:








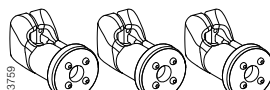











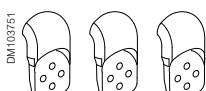



Mandatory auxiliaries		Voltage		References
	Electric motor MCH	DC	24-30 V	EXECH02D
			48-60 V	EXECH04
			100-125 V	EXECH10D
			200-250 V	EXECH20D
	Electric motor MCH	AC 50/60 Hz	48-60 V	EXECH04
			100-130 V	EXECH10A
			200-240 V	EXECH20A
	Opening release MX & closing release XF	DC / AC (50/60 Hz)	24-30 VDC/24 VAC (1 part)	2x 59284
			48-60 VDC/48 VAC (1 part)	2x 59285
			100-130 VDC/100-130 VAC (1 part)	2x 59286
			200-250 VDC/200-250 VAC (1 part)	2x 59287
Optional auxiliaries		Voltage		References
	Opening release MX (2nd)	DC / AC (50/60 Hz)	24-30 VDC/24 VAC	59284
			48-60 VDC/48 VAC	59285
			100-130 VDC/100-130 VAC	59286
			200-250 VDC/200-250 VAC	59287
	Undervoltage release MN	DC / AC (50/60 Hz)	24-30 VDC / 24 VAC	59288
			48-60 VDC / 48 VAC	59289
			110-130 VDC / 100-130 VAC	59290
			200-250 VDC / 200-250 VAC	59291
Indication		Description		References
	Additional position contacts OC (1 or 2 blocks of 4 NO/NC maximum)	4 NO/NC auxiliary contact 5 A - 240 V		47887
		Terminal block (1 part)		4x 47074
Racking Device motor control				
	See page : Withdrawability / MV connection - Tulip contact			







Withdrawability

MV connection - Tulip contact

Caption : Only identical colour shapes can be associated.

Arms for Tulip cluster	Description					References
	Phase distance					
	150	210	275			
Set of 3 Arms non Insulated 						MV Arms 630 A Not Insulated for Tulip cluster EXEARM06B
						MV Arms 800 A - 1 250 A Not Insulated for Tulip cluster EXEARM12B
Set of 3 Arms non Insulated 						MV Arms 1600 A - 2 000 A Not Insulated for Tulip cluster EXEARM20B
						MV Arms 2500 A Not Insulated for Tulip cluster EXEARM25B
Set of 3 Arms Insulated 						MV Arms 630 A Insulated for Tulip cluster with Up = 95 kV EXEARM06B1
						MV Arms 800 A - 1250 A Insulated for Tulip cluster with Up = 95 kV EXEARM12B1

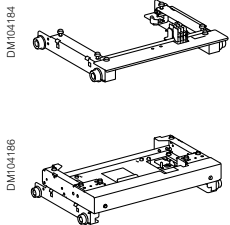





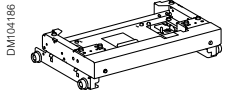
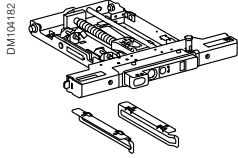





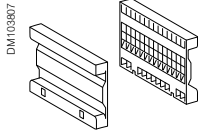





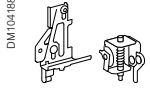
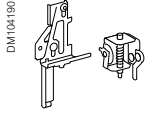





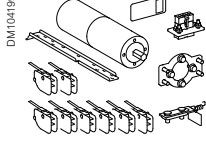










Field deflector	Description					References
	Phase distance					
	150	210	275			
Set of 3 Field Deflectors 						Field deflector up to 1 250 A EXEFLDF

Tulip cluster	Description					References
	Phase distance					
	150	210	275			
Set of 6 Tulip cluster 						MV Tulip cluster 630 A - 800 A- 1 250 A EXECLU12B
						MV Tulip cluster 1 600 A - 2 000 A EXECLU20B
						MV Tulip cluster 2 500 A EXECLU25B

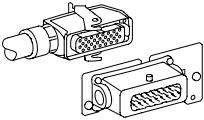
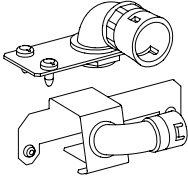
Withdrawability

Racking device - Tulip contact

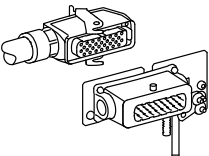
Caption : Only identical colour shapes can be associated.

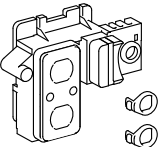
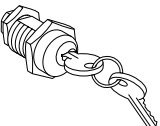
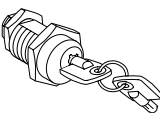
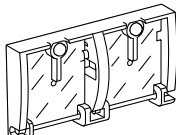
Rolling base for 200 mm stroke		Description					References
	Phase distance						
	150	210	275				
						Rolling Base 150 mm Stroke 200 mm CD 205 mm Beam 482 mm	EXETRBJB1
						Rolling Base 150 mm Stroke 200 mm CD 205 mm Beam 503 mm	EXETRBKB1
						Rolling Base 210 mm Stroke 200 mm CD 205 mm Beam 653 mm	EXETRBLB1
						Rolling Base 210 mm with Plinth (Plinth 72) Stroke 200 mm CD 310 mm Beam 652 mm	EXETRBLB2
						Rolling Base 275 mm with Plinth (Plinth 72) Stroke 200 mm CD 310 mm Beam 853 mm	EXETRBMB2
Manual Racking Trolley for 200 mm stroke		Description					References
	Phase distance						
	150	210	275				
						Manual Racking Trolley 150 mm Stroke 200 mm Beam 482 mm	EXETRKJB
						Manual Racking Trolley 150 mm Stroke 200 mm Beam 503 mm	EXETRKKB
						Manual Racking Trolley 210 mm Stroke 200 mm Beam 653 mm	EXETRKLB
						Manual Racking Trolley 275 mm Stroke 200 mm Beam 853 mm	EXETRKMB
Shutter Ramp		Description					References
	Phase distance						
	150	210	275				
						Shutter Ramp CD 205 mm Beam 482 mm	EXESHRP0
						Shutter Ramp CD 205 mm	EXESHRP1
						Shutter Ramp CD 310 mm	EXESHRP2
Tripping Interlock (Tripping chain for Withdrawable VCB)		Description					References
	Phase distance						
	150	210	275				
						Truck Tripping Component	EXETRIP1
						Truck Tripping Component for Plinth (plinth 72)	EXETRIP2
Racking Device motor control		Description					References
	Phase distance						
	150	210	275				
						Racking Trolley motorization 100-125 V DC/AC	EXERMCB10
						Racking Trolley motorization 200-250 V DC/AC	EXERMCB20

Fixed type LV connection


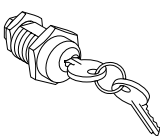
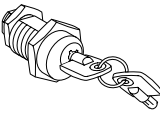
LV 64 pins connector (M&F)		Description	References
<div><div>DM103795</div></div>	For fixed VCB	LV 64 pins connector (Male & Female) for fixed device without interlocking	EXEPLF
Elbow for LV connection			
<div><div>DM103765</div></div>	Elbow	LV connection elbow right	EXEELR
		LV connection elbow left	EXEELL

Withdrawable type LV connection

LV 64 pins connector (M&F)		Description	References
<div><div>DM103809</div></div>	For withdrawable VCB	LV 64-pins connector (male & female) for withdrawable device with interlocking	EXEPLW

Locking accessories for Fixed type		Description	References
	Padlocking device	Locking of the circuit breaker in the open position by padlock (Padlock or key locks not supplied)	48541
	Locking of the circuit breaker in the open position by keylocks	Flat key	1 key lock + 2 flat keys
			2 key locks + 1 flat key ⁽¹⁾
	Locking of the circuit breaker in the open position by keylocks	Cylindrical key	1 key lock + 2 cylindrical keys
			2 key locks + 1 cylindrical key ⁽¹⁾
	Push button padlock	Disabling of O/C circuit breaker pushbutton (padlock not supplied)	48536

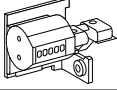
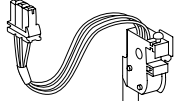
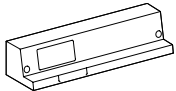
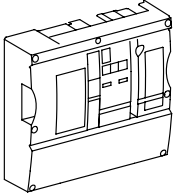
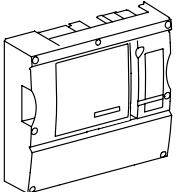
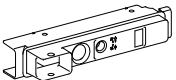
⁽¹⁾ One keylock mounted on the breaker, + one identical keylock supplied separately for interlocking with another device.

Locking accessories for Withdrawable type		Description	References
	Keylock	Cam for Racking Device Keylock	EXECAMW
	For CB: Locked in disconnected position	Flat key	1 key lock + 2 flat keys
	For DD: Locked in service position		2 key locks + 1 flat key ⁽²⁾
	For CB: Locked in disconnected position	Cylindrical key	1 key lock + 2 cylindrical keys
	For DD: Locked in service position		2 key locks + 1 cylindrical key ⁽²⁾

⁽²⁾ One keylock mounted on the racking device, + one identical keylock supplied separately for interlocking with another device.

Labels		Description	References
DM103769	Labels kit for push button and indicator	Labels kit for push button and indicator (O/C) (green / red)	EXELBPB
Rack-in / rack-out crank		Description	References
DM103805		Truck operating shaft	59449
MV connections		Description	References
DM103751	Set of 3 Field Deflectors	Field deflector up to 1 250 A	EXEFLDF

- Only End Users (level 2) are allowed to replace the components listed below. These kit components must only be assembled, installed, used, tested, repaired or maintained by qualified personnel
- To order spare parts, please contact your Schneider Electric representative or your equipment manufacturer
- For any modification or upgrade of the circuit breaker, contact your equipment manufacturer or Schneider Electric

Basic function circuit breaker		Description	References
DM103767	 Operating counter	Counter	48535
DM103767	 Ready to close contact PF	Ready to close contact 51-240V	47080
Device covers		Description	References
DM103769	 Removable top cover	Removable top cover with screw	EXECOTO
DM103791	 Main front cover for CB	Circuit Breaker main front cover with screw. Please contact Schneider Electric sales representative for more information to obtain nameplate of the Device.	EXECOFRCB
DM105655	 Main front cover for DD	Disconnecting Device main front cover with screw. Please contact Schneider Electric sales representative for more information to obtain nameplate of the Device.	EXECOFRDD
Racking trolley front cover		Description	References
DM104194	 Racking Trolley front cover	Racking Trolley front cover including screw, label, indicator, red push button	EXECORT



TOOLS

schneider-electric.com

This international web site allows you to access all the Schneider Electric solutions and product information via:

- Comprehensive descriptions
- Range datasheets
- A download area
- Product selectors

You can also access information dedicated to your business and contact your Schneider Electric country support.





TOOLS

Web selector

This site allows you to access the Schneider Electric products in just two clicks via a comprehensive range of datasheets, with direct links to:

- Complete libraries: technical documents, catalogs, FAQs, brochures
- Selection guides from the e-catalog
- Product discovery sites and their animations

You will also find illustrated overviews, news to which you can subscribe, and a list of country contacts

Training

Training allows you to acquire the expertise (installation design, work with power on, etc.) to increase efficiency and improve customer service.

The training catalog includes beginner's courses in electrical distribution, knowledge of MV and LV switchgear, operation and maintenance of installations, and design of LV installations to give a few examples.

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