2017 Catalog



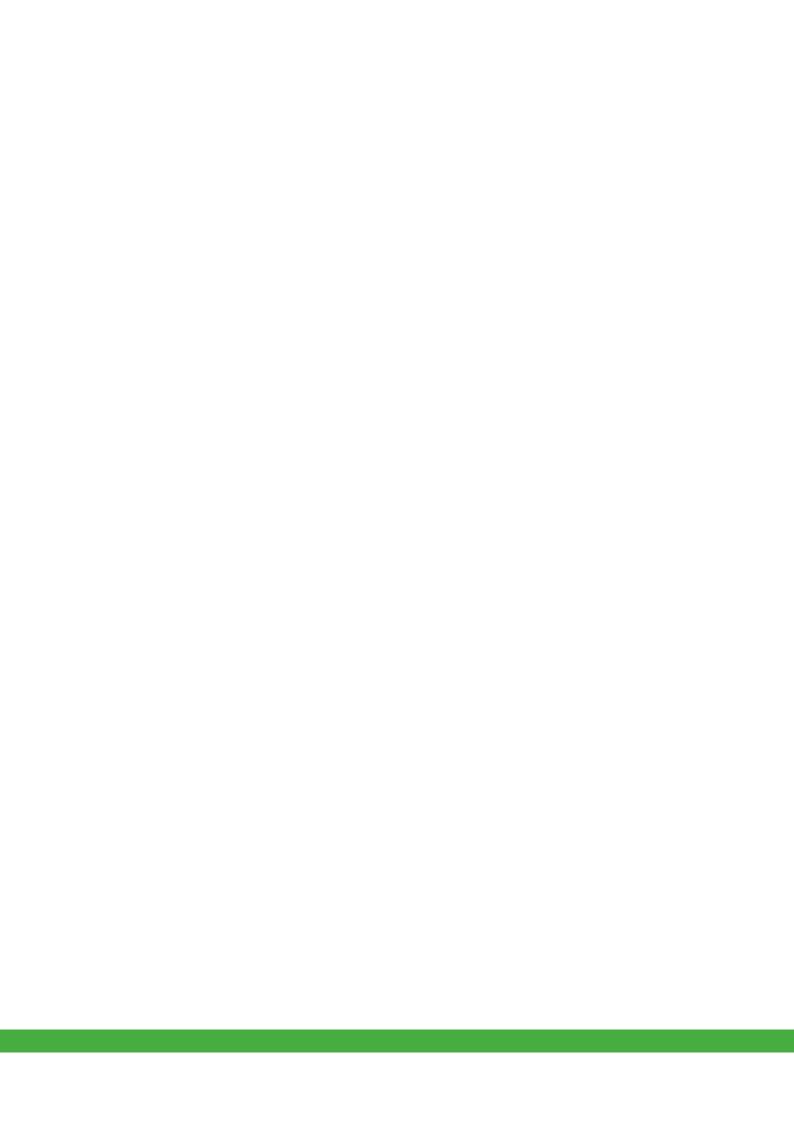
EasyPact EXE

Vacuum circuit breaker up to 17.5kV

Fixed and withdrawable versions

Medium Voltage Distribution



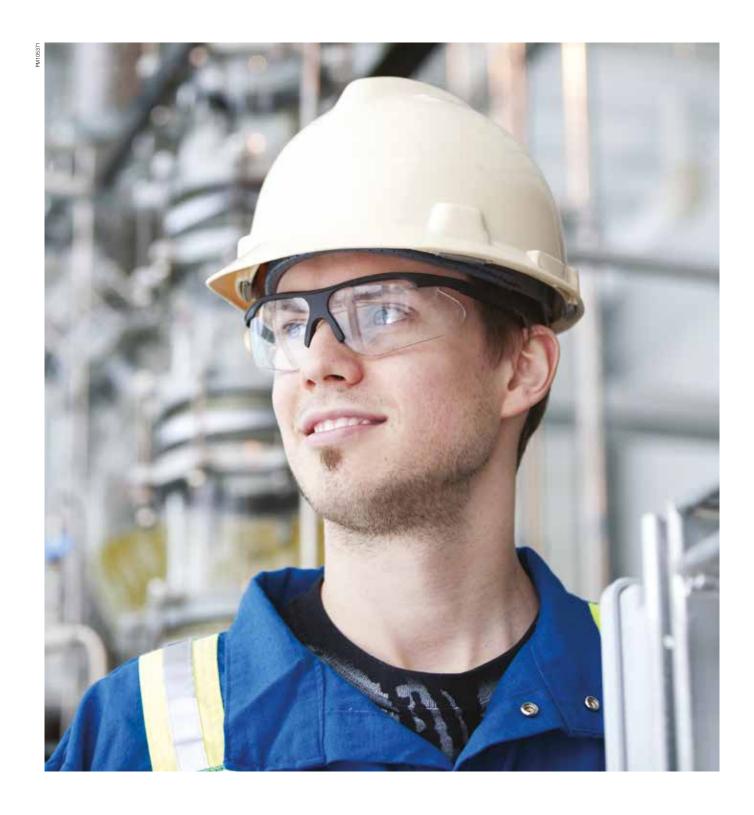


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EasyPact EXE:

Enjoy more flexibility and deliver MV switchgear faster



Your needs

EasyPact EXE answers



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



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



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

Overview

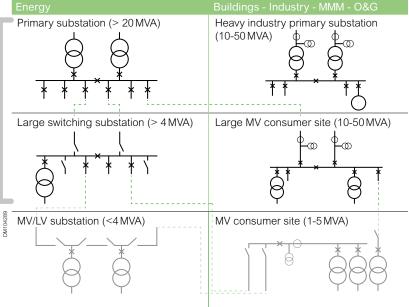
Overview

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Field of applications

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 Energy Primary substation (> 20 MVA



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





Field of applications









Applications

Infrastructure

- Airports
- Hospitals

Large commercial buildings

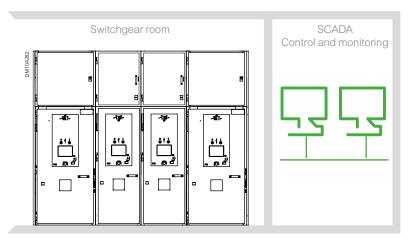
- · High rise buldings
- Mauls
- · Shopping centres,
- · Office buildings

Industrial plants

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

Power grid

Distribution substations



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.

Designed for greater safety

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

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



Operating mechanism

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.

Designed for greater safety



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.



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.

Simple to use

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 Buiders.

Please contact your Schneider Electric sales representative for more information.

Simple to use





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

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



Proven compliance with IEC standard





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): EXE 122006A1B version fixe / fixed version EasyPact EXE 12XV 2XA 630A (146mm distance d'antrephase / 146mm phase distance) Selon dossier didentification / Locarding to Identification Filer NVE6726500 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

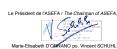
Document(s) de référence / Reference document(s): IEC 62271-100 Ed 2.1 (2012-09): liste des essais en Annexe 1 / list of tests in

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

Document(s) pris en compte (s) / Relevant document(s):
Rapport(s) d'essal / Test report(s): voir Annexe 1 / refer to Annex 1
(emis par Fit en tant que liaboratoire homologue ASEFA, et DNV-GLKEMA / issued by F11 as ASEFA app

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

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





Simple to use



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

Flexible

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).

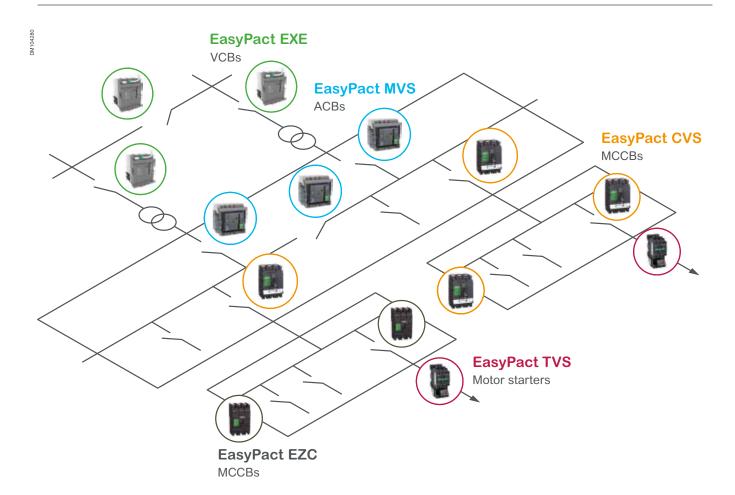
Broad range of dimensions

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.

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 |

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

CPB 10000004

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:

• Ics = Icu = Icw (1 s) = 50 and 65 kA at 440 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



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:

- Ics = 100% Icu
- · 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

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





MiCOM range





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 truerms 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?

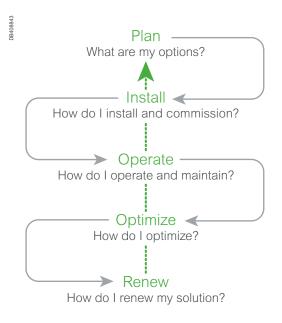
When it comes to your electrical distribution infrastructure, the answer is straightforward: get professional expertise.

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

Life Cycle Services



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 onsite 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-oflife 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 | |
| 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 | Equipment CRITICALITY | | | | | |
|--------------------------|---|-------|----------|--|--|--|
| ENVIRONMENTAL conditions | 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 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 date, 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 - Environment



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 independant 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

| Fixed Circuit Breaker (CB) | 26 |
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| Main characterisitcs | 28 |
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| Main characterisitcs | 30 |
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| Service and storage conditions | 32 |
| Electrical characteristics (CB) | 33 |

Fixed Circuit Breaker (CB)

Main characteristics

According to IEC 62271-100





| Phase distance (mm) | | | | 145 | 150 | 185 | 185 | 210 | 210 | 240 | 275 |
|--------------------------------------|--------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| Phase distance (mm) | | | | 145 | 150 | 185 | 185 | 210 | 210 | 240 | 2/5 |
| Rated voltage | Ur | kV | 12 | • | • | • | • | • | • | • | • |
| | | | 17.5 | • | • | • | • | • | • | • | • |
| Rated frequency | fr | Hz | 50/60 | • | • | • | • | • | • | • | • |
| Rated short duration power | Ud kV | kV | 28 | • | • | • | • | • | • | • | • |
| requency withstand voltage (1) | | | 38 | • | • | • | • | • | • | • | • |
| Rated lightning impulse | Up | Jp kV | 75 | • | • | • | • | • | • | • | • |
| withstand voltage | | | 95 | • | • | • | • | • | • | • | • |
| Rated short-circuit breaking current | Isc kA | kA | 20 | • | • | • | | • | | | |
| | | | 25 | • | • | • | • | • | • | | |
| | | | 31.5 | • | • | • | • | • | • | • | • |
| Rated duration of short- ircuit | tk | S | 3 | • | • | • | • | • | • | • | • |
| Rated normal current | lr | Α | 630 | • | • | • | | • | | | |
| | | | 800 | • | • | • | | • | | | |
| | | | 1 250 | • | • | • | | • | | | |
| | | | 1 600 | | | | • | | • | | |
| | | | 2 000 | | | | • | | • | | |
| | | | 2 500 | | | | | | • | • | • |

Additional characteristics according to IEC 62271-100 are listed in the common characteristics section.

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.

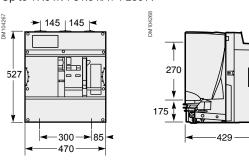


Fixed Circuit Breaker (CB)

Dimensions

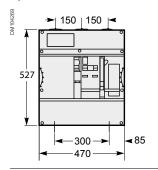
Phase distance 145 mm

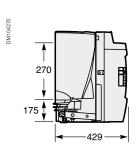
Up to 17.5 kV / 31.5 kA / 1 250 A



Phase distance 150 mm

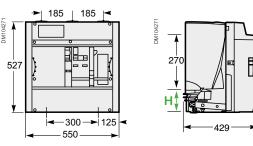
Up to 17.5 kV / 31.5 kA / 1 250 A





Phase distance 185 mm

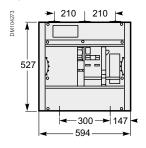
Up to 17.5 kV / 31.5 kA / 2 000 A

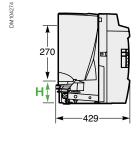


- 175 mm up to 1 250 A
 - 158 mm for 1 600 A and 2 000 A

Phase distance 210 mm

Up to 17.5 kV / 31.5 kA / 2 500 A

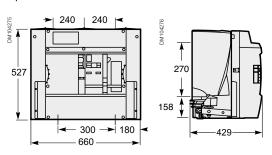




- 175 mm up to 1 250 A
 - 158 mm for 1 600 A, 2 000 A and 2 500 A

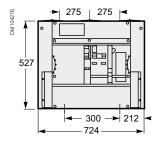
Phase distance 240 mm

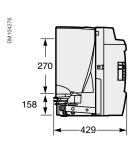
Up to 17.5 kV / 31.5 kA / 2 500 A



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 | Ud | kV | 28 | • | • | • | • | | |
| power frequency withstand voltage (1) | | | 38 | (2) | (2) | (2) | (2) | | |
| Rated lightning impulse | Up kV | 75 | • | • | • | • | | | |
| withstand voltage | | | 95 | (2) | (2) | (2) | (2) | | |
| Rated short-circuit | Isc | Isc | Isc kA | kA | 20 | • | • | | |
| breaking current | | | 25 | • | • | • | • | | |
| | | | 31.5 | • | • | • | • | | |
| Rated duration of short-circuit | tk | S | 3 | • | • | • | • | | |
| Rated normal current | Ir | Α | 630 | • | • | | | | |
| | | | 800 | • | • | | | | |
| | | | 1 250 | • | • | | | | |
| | | | 1 600 | | | • | | | |
| | | | 2 000 | | | • | | | |
| | | | 2 500 | | | | • | | |

 $Additional\ characteristics\ according\ to\ IEC\ 62271-100\ are\ listed\ in\ the\ common\ characteristics\ section.$

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.

⁽¹⁾ Contact us for 42 kV - 5 min.

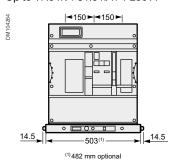
⁽²⁾ Contact your Schneider Electric sales representative for more information.

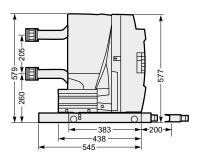
Withdrawable Circuit Breaker (CB) - Tulip Contact

Dimensions

Phase distance 150 mm

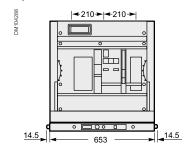
Up to 17.5 kV / 31.5 kA / 1 250 A

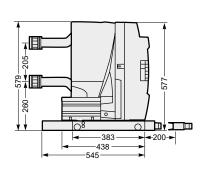




Phase distance 210 mm

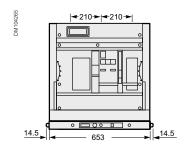
Up to 17.5 kV / 31.5 kA / 1 250 A

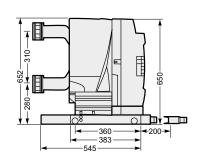




Phase distance 210 mm

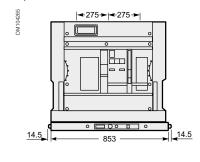
Up to 17.5 kV / 31.5 kA / 2 000 A

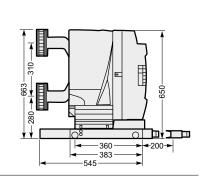




Phase distance 275 mm

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 beaker 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 | | | | | | cs |
|--|---|----|-------|-----|-----|-----|-----|
| 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 | Ud | kV | 28 | • | • | • | • |
| power frequency withstand voltage (1) | | | 38 | (2) | (2) | (2) | (2) |
| Rated lightning impulse | Up | kV | 75 | • | • | • | • |
| withstand voltage | | | 95 | (2) | (2) | (2) | (2) |
| Rated short-time withstand current | lk | kA | 31.5 | • | • | • | • |
| Rated peak withstand current | lp | kA | 82 | • | • | • | • |
| Rated duration of short-circuit | tk | S | 3 | • | • | • | • |
| Rated normal current | lr | Α | 1 250 | • | • | | |
| | | | 2 000 | | | • | |
| | | | 2 500 | | | | • |

⁽¹⁾ Contact us for 42 kV - 5 min.

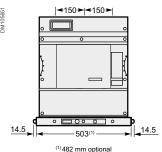
⁽²⁾ Contact your Schneider Electric sales representative for more information.

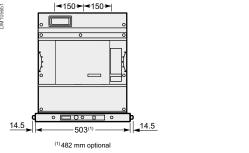
Withdrawable Disconnecting Device (DD) - Tulip Contact

Dimensions

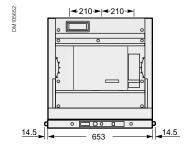
Phase distance 150 mm

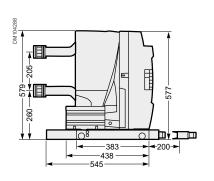
Up to 17.5 kV / 31.5 kA / 1 250 A





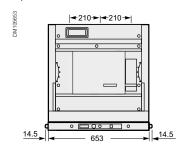
Up to 17.5 kV / 31.5 kA / 1 250 A

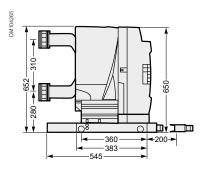




260 **←**200-> -438 -

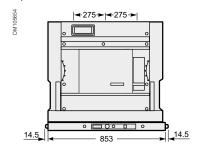
Up to 17.5 kV / 31.5 kA / 2 000 A

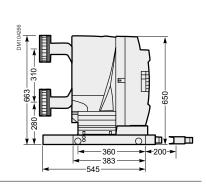




Phase distance 275 mm

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 bee | en designed to operate in the following |
|-------------------------|--|
| Ambient air temperature | Minimum value: -25°C Maximum value: 40°C Average measured over 24 hours period ≤35°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 | Average relative humidity over 24 hours ≤ 95% Average relative humidity over 1 month ≤ 90% Average vapor pressure over 24 hours ≤ 2.2 kPa Average vapor pressure over 1 month ≤ 1.8 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.

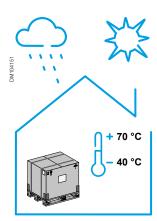
Storage

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 °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)



According to IEC 62271-100

| Common characterist | 12 kV | 17.5 kV | |
|--|-------------------------|---------|---------|
| Rated short-time withstand current (lk/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 | A-class | 10-C2 | 10-C1 |
| breaking current | | | |
| 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 | MCH | MX / XF / MN | Mechanical |
|------------------------------------|----------------------------|-------------------|------------------------|
| Breaker | | release | interlocks |
| 10 000 operation cycles / 30 years | 10 000 charging operations | 10 000 operations | 2 000 operation cycles |

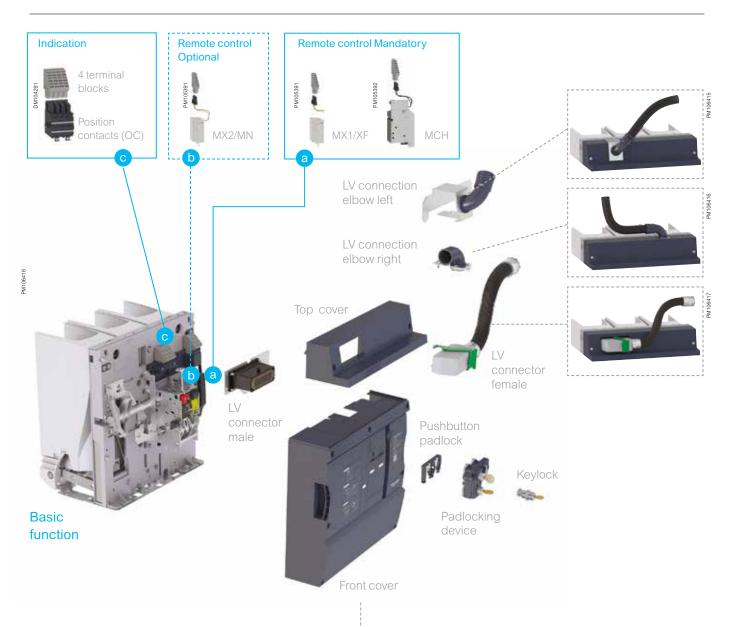
Functions and characteristics

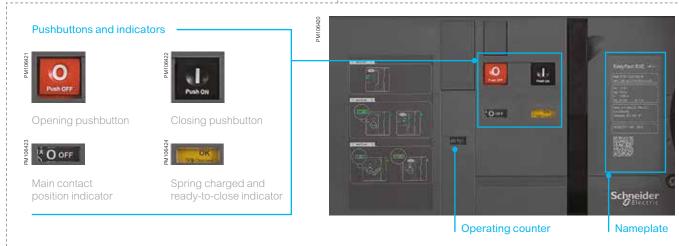
Functions and characteristics

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Overview

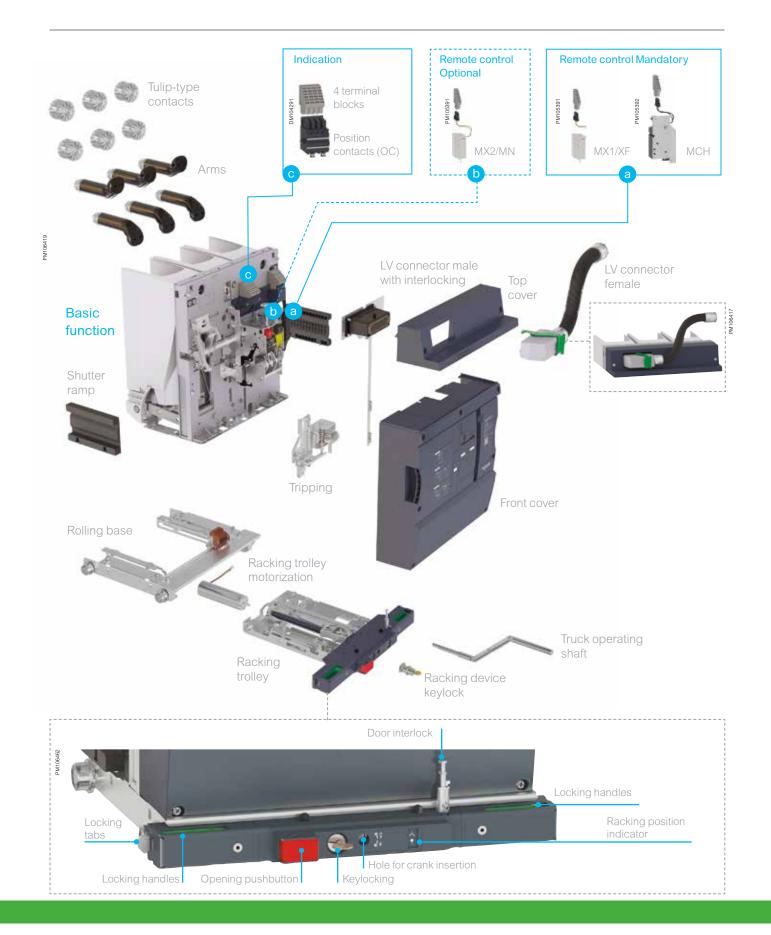
Fixed Circuit Breaker





Overview

Withdrawable Circuit Breaker



Remote control auxiliaries

Mandatory auxiliaries

Shunt opening release MX1

Shunt closing release XF

Electric motor MCH







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 | • DC: 24-30 V, 48-60 V, 110-130 V, 200-250 V |
| | • AC (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 | • 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 | | 0.85 to 1.1 Ua | | | |
| Consumption (VA or W) | 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 | • DC: 24-30 V, 48-60 V, 100-130 V, 200-250 V | | | | |
| | • AC (50 Hz/60 Hz): 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 | | | |

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 | Poly 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



Rotary type contacts (OC)

and the Panel Builder may add one or two additional blocks of four contacts. The maximum number of position contacts is twelve.

Position contacts (OC)

| Characteristics | | | | | | | |
|---|------------------|----------------------------|------------------------|--|--|--|--|
| Standard delivery 1 (1 block of 4 contacts) | | | | | | | |
| Maximum quantity | 3 (3 blocks of 4 | 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 | | | | |

EasyPact EXE is equipped with one block of four position contacts as standard,

«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 |

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).





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

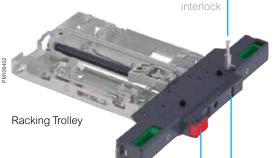
Withdrawability

Racking Device

EasyPact EXE racking function

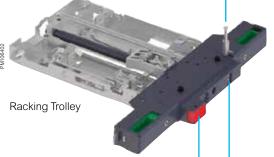
EasyPact EXE racking device enables Panel Builder to design switchgear solutions with enhanced safety features. It has a robust interlocking system with the switchgear door, the removable LV plug, the circuit-breaker and the earthing switch.

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:

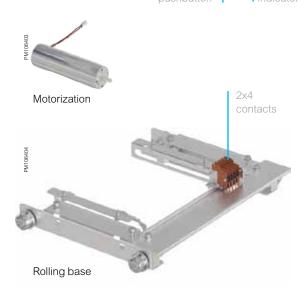
- Racking Trolley
- Rolling Base
- Shutter Ramp
- Tripping

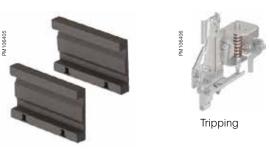


The EasyPact EXE racking function comprises:

- 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:

 - 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





Shutter ramps

Locking

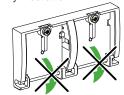
Fixed Circuit Breaker

Screen for pushbutton padlocking

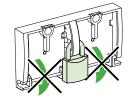
An optional transparent screen can prevent access to the opening and/or closing pushbuttons on the circuit breaker.

Locking is achieved by means of one of the following:

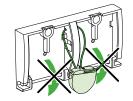
By 2 screws

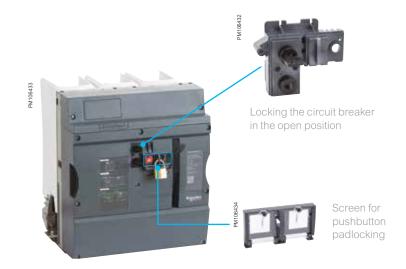


By 3 padlocks (not supplied with the circuit breaker)

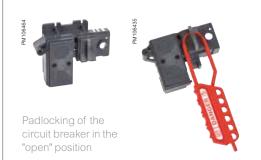


By a lead seal (not supplied with the circuit breaker)





Locking in permanent open position by padlock



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





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

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.

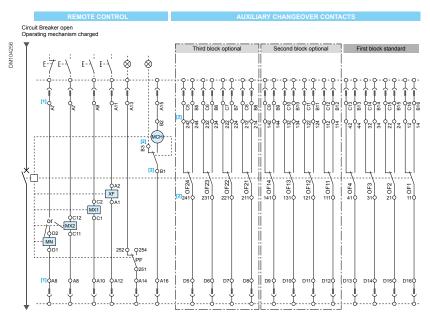


_V terminal



64 pin male connector

Fixed version wiring diagram example



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

LV connection

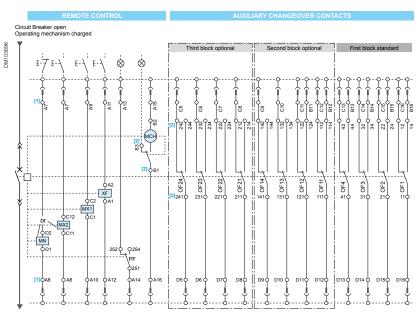
Withdrawable Circuit Breaker

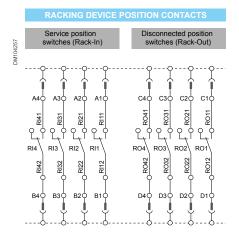


The LV connector collects electrical orders and status information from the circuit breaker terminal blocks and from the racking trolley terminal blocks. The number of pins in the LV connector (maximum 64 pins) may limit the number of available position contacts for the switchgear LV cabinet.

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





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

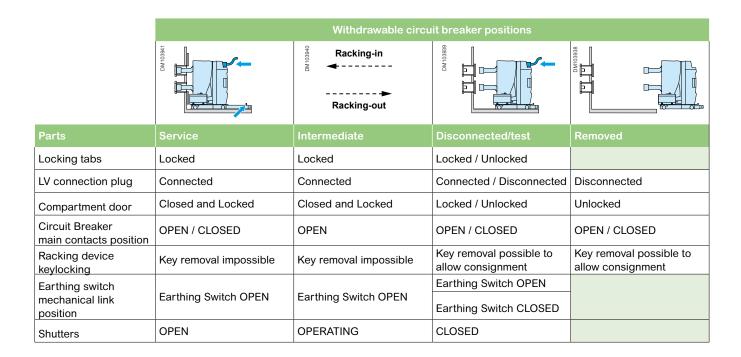
Racking Device interlocking

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



Product references

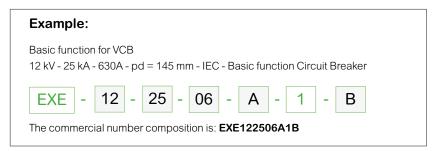
Product references

| Commercial reference numbering system | | | |
|---|--------------------------------------|--|--|
| Basic Function Circuit Breaker (CB) | 51 | | |
| 12 kV and 17,5 kV - 20 kA 12 kV and 17,5 kV - 25 kA 12 kV and 17,5 kV - 31,5 kA | 51 52 53 | | |
| Basic Function Disconnecting Device (DD) | 54 | | |
| 12 kV and 17,5 kV - up to 31,5 kA | 54 | | |
| Remote control Auxiliaires | 55 | | |
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| Withdrawability | 56 | | |
| MV connection - Tulip contact Racking Device - Tulip contact | 56 57 | | |
| LV connection | 58 | | |
| Fixed Withdrawable | 58 | | |
| Locking | 59 | | |
| Fixed Withdrawable | 59 59 | | |
| Accessories | 60 | | |
| Label Rack-in / rack-out crank Field deflector | 60 60 | | |
| Spares | 61 | | |

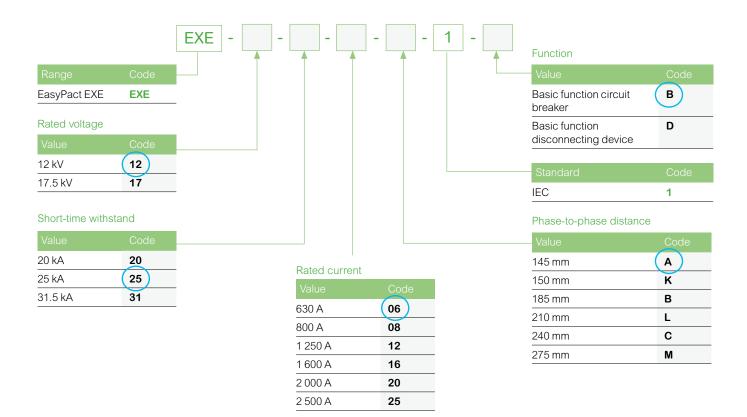
Commercial reference numbering system

Commercial number composition

For circuit breaker, disconnecting device, and earthing device.



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

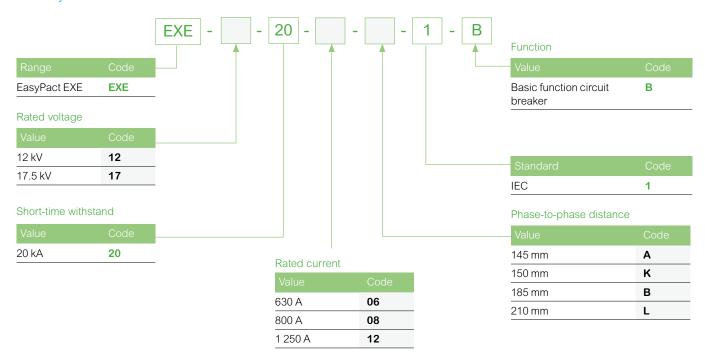
Additional options may be added, using the catalog product references.

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

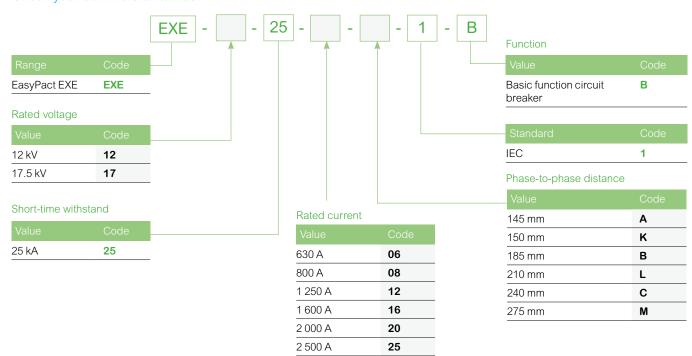
Additional options may be added, using the catalog product references.

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



Basic function Circuit Breaker (CB)

12 kV and 17.5 kV - 31.5 kA



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

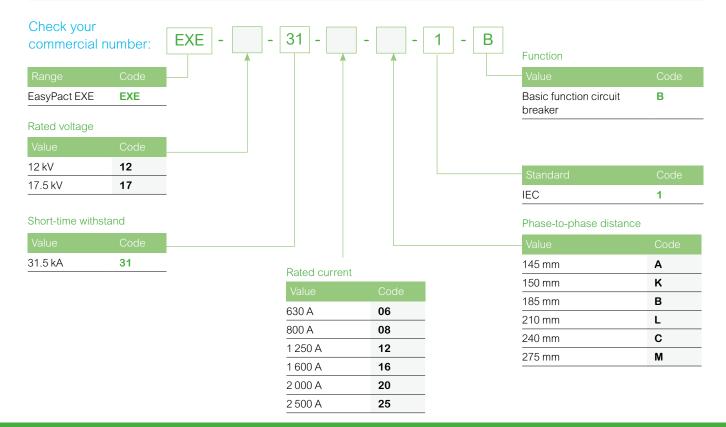
- · The basic function circuit breaker
- 1 ready to close contact PF with 1 terminal block
- 1 block of 4 auxiliary contacts with 4 terminal blocks
- 4 additional terminal blocks
- 1 operating counter
- 1 receipt guide

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

| Basic function | | | | | | | | |
|----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| Phase | distance (mm) | 145 | 185 | 240 | 150 | 210 | 275 | |
| | 630 A | EXE123106A1B | EXE123106B1B | - | EXE123106K1B | EXE123106L1B | - | |
| | 800 A | EXE123108A1B | EXE123108B1B | - | EXE123108K1B | EXE123108L1B | - | |
| 12 kV | 1 250 A | EXE123112A1B | EXE123112B1B | - | EXE123112K1B | EXE123112L1B | - | |
| 12 KV | 1 600 A | - | EXE123116B1B | - | - | EXE123116L1B | - | |
| | 2 000 A | - | EXE123120B1B | - | - | EXE123120L1B | - | |
| | 2 500 A | - | - | EXE123125C1B | - | EXE123125L1B | EXE123125M1B | |
| | 630 A | EXE173106A1B | EXE173106B1B | - | EXE173106K1B | EXE173106L1B | - | |
| | 800 A | EXE173108A1B | EXE173108B1B | - | EXE173108K1B | EXE173108L1B | - | |
| 17.5 kV | 1 250 A | EXE173112A1B | EXE173112B1B | - | EXE173112K1B | EXE173112L1B | - | |
| 17.5 KV | 1 600 A | - | EXE173116B1B | - | - | EXE173116L1B | - | |
| | 2 000 A | - | EXE173120B1B | - | - | EXE173120L1B | - | |
| | 2 500 A | - | - | EXE173125C1B | - | EXE173125L1B | EXE173125M1B | |

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



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

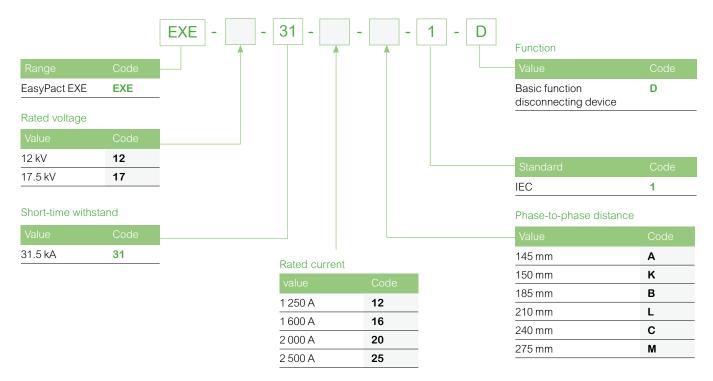
Additional options may be added, using the catalog product references.

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

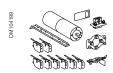


Remote control Auxiliaires

| Mandatory auxiliaries | | Voltage | | References |
|-----------------------|--------------------------|-------------|----------------------------------|-----------------|
| | Electric motor MCH | DC | 24-30 V | EXECH02D |
| 4 | | | 48-60 V | EXECH04 |
| CF CCOLOR | | | 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 & | DC / AC | 24-30 VDC/24 VAC (1 part) | 2x 59284 |
| | closing release XF | (50/60 Hz) | 48-60 VDC/48 VAC (1 part) | 2x 59285 |
| | | | 100-130 VDC/100-130 VAC (1 part) | 2x 59286 |
| ful ful | | | 200-250 VDC/200-250 VAC (1 part) | 2x 59287 |
| Optional auxiliaries | | Voltage | | References |
| | Opening release MX (2nd) | DC / AC | 24-30 VDC/24 VAC | 59284 |
| | , , | (50/60 Hz) | 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 | 24-30 VDC / 24 VAC | 59288 |
| | • | (50/60 Hz) | 48-60 VDC / 48 VAC | 59289 |
| | | | 110-130 VDC / 100-130 VAC | 59290 |
| | | | 200-250 VDC / 200-250 VAC | 59291 |

| Indication | | Description | References |
|------------|---|---------------------------------------|------------|
| 9 | Additional | 4 NO/NC auxiliary contact 5 A - 240 V | 47887 |
| леотио | position contacts OC (1 or 2 blocks of 4 NO/NC maximum) | 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 |
|--|----|-------|----------|-------|-----|---|------------|
| | F | Phase | e dist | tance |) | | |
| | 15 | 50 | 21 | 10 | 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 |
| ESTERINA (S.) | | | | | • | 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 |
| RACCOLING OF THE PROPERTY OF T | | | ♦ | | | MV Arms 800 A - 1250 A Insulated for Tulip cluster with Up = 95 kV | EXEARM12B1 |

| Field deflector | | | | Description | References |
|---------------------------|------|----------|-----|-------------------------------|------------|
| Set of 3 Field Deflectors | Phas | e distan | се | | |
| Set of 3 Field Deflectors | 150 | 210 | 275 | | |
| DM103751 | | • | | Field deflector up to 1 250 A | EXEFLDF |

| Tulip cluster | | | | | | Description | References |
|------------------------|----------------|--|----------|----|----|---|------------|
| Set of 6 Tulip cluster | Phase distance | | | | | | |
| | 150 | | 210 | 27 | 75 | | |
| DM1037E | | | • | | | MV Tulip cluster 630 A - 800 A- 1 250 A | EXECLU12B |
| | | | | | | MV Tulip cluster 1 600 A - 2 000 A | EXECLU20B |
| | | | | 4 | | MV Tulip cluster 2 500 A | EXECLU25B |

Withdrawability

Racking device - Tulip contact

Caption: Only identical colour shapes can be associated.

| | | | | | | ateu. |
|---|--------------|--------|----------------|----------|--|--------------------|
| Rolling base for 200 mm | | | | | Description | References |
| | 150 | | istanc 210 | e 275 | | |
| PM104194 | | | | | 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 |
| 1186 | | 4 |) | | Rolling Base 210 mm Stroke 200 mm CD 205 mm Beam 653 mm | EXETRBLB1 |
| DM104186 | | | | | Rolling Base 210 mm with Plinth (Plinth 72) Stroke 200 mm CD 310 mm Beam 652 mm | EXETRBLB2 |
| ##T? | | | | | Rolling Base 275 mm with Plinth (Plinth 72) Stroke 200 mm CD 310 mm Beam 853 mm | EXETRBMB2 |
| Manual Racking Trolley fo | or 200 |) mm | stroke | | Description | References |
| | Ph | ase d | listanc | е | | |
| | 150 | | 210 | 275 | | |
| DM104182 | | | | | 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 |
| 20 | Ph 150 | | listanc 210 | e 275 | | |
| DM10380. | | | | | 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 Withd | Irawak | ole VC | CB) | | Description | References |
| | | nase d | | e | | |
| M104188 | | | | | | |
| 6 (95 L SP) | 150 | | 210 | 275 | | |
| | 150 | | | | Truck Tripping Component | EXETRIP1 |
| OM 1041090 | 150 | | | | Truck Tripping Component Truck Tripping Component for Plinth (plinth 72) | EXETRIP1 EXETRIP2 |
| Racking Device motor co | | | | | | |
| Racking Device motor co | ontrol | nase d | | 275 | Truck Tripping Component for Plinth (plinth 72) | EXETRIP2 |
| | ontrol Ph | nase d | 210 | 275 | Truck Tripping Component for Plinth (plinth 72) | EXETRIP2 |

LV connection

Fixed type LV connection

| LV 64 pins connec | ctor (M&F) | Description | References |
|-------------------|---------------|--|------------|
| DM 103795 | For fixed VCB | LV 64 pins connector (Male & Female) for fixed device without interlocking | EXEPLF |
| Elbow for LV conr | nection | | |
| DM103765 | Elbow | LV connection elbow right | EXEELR |
| | | LV connection elbow left | EXEELL |
| |) | | |

Withdrawable type LV connection

| LV 64 pins connector (| M&F) | Description | References | | |
|--|----------------------|--|------------|--|--|
| Second Office of the second of | For withdrawable VCB | LV 64-pins connector (male & female) for withdrawable device with interlocking | EXEPLW | | |

Locking

| L | ocking accessories f | for Fixed type | Description | 1 | References | | |
|----------|----------------------|---|--|--|------------|--|--|
| DM103753 | | Padlocking device | | Locking of the circuit breaker in the open position by padlock (Padlock or key locks not supplied) | | | |
| 3775 | | Locking of the circuit | Flat key | 1 key lock + 2 flat keys | 41940 | | |
| DM103775 | | breaker in the open position by keylocks | | 2 key locks + 1 flat key (1) | 41950 | | |
| 3777 | | Locking of the circuit | Cylindrical | 1 key lock + 2 cylindrical keys | 42888 | | |
| DM103777 | | breaker in the open position by keylocks | key | 2 key locks + 1 cylindrical key (1) | 42878 | | |
| DM103755 | | 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.

| L | ocking accessories f | or Withdrawable type | Description | Description | | | | |
|----------|----------------------|---------------------------------------|----------------|-------------------------------------|-------|--|--|--|
| DM104192 | 50 | Keylock | Cam for Rackin | EXECAMW | | | | |
| 3775 | | For CB: | Flat key | 1 key lock + 2 flat keys | 41940 | | | |
| DM103775 | | Locked in disconnected position | | 2 key locks + 1 flat key (2) | 41950 | | | |
| | | For DD: Locked in service position | | | | | | |
| 12777 | | For CB: | Cylindrical | 1 key lock + 2 cylindrical keys | 42888 | | | |
| DM103777 | | Locked in disconnected position | key | 2 key locks + 1 cylindrical key (2) | 42878 | | | |
| | | For DD: Locked in service position | | | | | | |

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

Accessories

| Labels | | Description | References |
|---|--|--|------------|
| SO CONTROL OF THE PROPERTY OF | Labels kit for push button and indicator | Labels kit for push button and indicator (O/C) (green / red) | EXELBPB |
| Rack-in / rack-out cra | ınk | Description | References |
| DM103805 | | Truck operating shaft | 59449 |
| | | | |
| MV connections | | Description | References |
| DM (10375; 60°) | Set of 3 Field Deflectors | Field deflector up to 1 250 A | EXEFLDF |

Spares

- 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 personnal
- 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 Electri

| Basic function circuit breaker | | Description | References |
|--------------------------------|------------------------------|--------------------------------|------------|
| DM103787 | Operating counter | Counter | 48535 |
| DM103767 | Ready to close contact PF | Ready to close contact 51-240V | 47080 |

| Device covers | | Description | References |
|---------------|-------------------------|---|------------|
| OM103788 | Removable top cover | Removable top cover with screw | EXECOTO |
| DMIOSTRI | 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 |
| SSSOUND | 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 |
|-----------------------------|-----------------------------|--|------------|
| DM 104194 | Racking Trolley front cover | Racking Trolley front cover including screw, label, indicator, red push button | EXECORT |

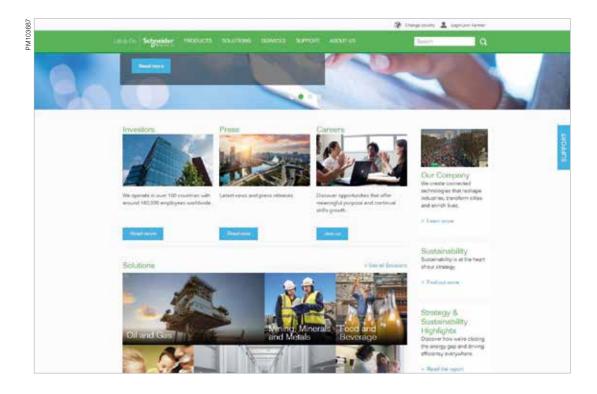


schneider-electric.com

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.





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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