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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

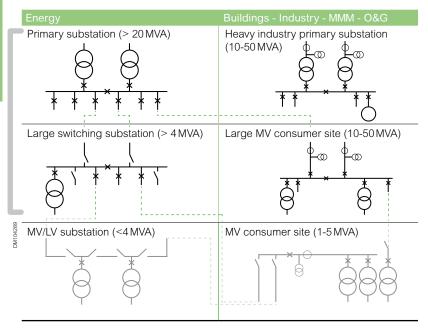
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Field of applications

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



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 12 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

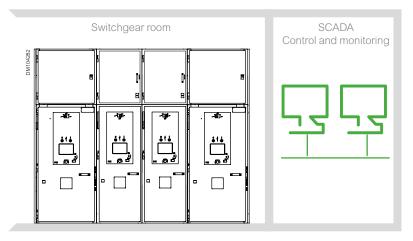
- · High rise buldings
- Mails
- · Shopping centres,
- · Office buildings

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) Chapter 12.3 of the IEC 62271-1 edition 2017



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.

The opening order has priority over 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
- 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

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 circuit-breaker and the earthing switch. It can be equipped with an electric motor for remote racking from the control room.

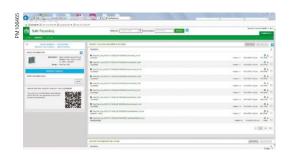
The materials used to manufacture EasyPact EXE racking trolley sub-assemblies have been selected and designed to operate 2 000 cycles under the conditions defined by the IEC standard.

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







Proven compliance with IEC standard

with Gost 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-voltag Référence(s) / Reference(s): EXE1220064 18 version fixe / fixed version EasyPact EXE 124V 20kA 630A (145mm distance d'entrephase / 145mm phase dis Selion dossier d'identification / According to Identification Filer NVES/726500 Rev 01

ue commerciale / Trademark: Schneider Electric

Fabricant / Manufacturer: Schneider Electric Industries SAS
Site de fabrication / Place of manufacture: Schneider Electric, SEA plant - Aubenas - FRANCE

taires / Additional information: sans objet / no

Document(s) de référence / Reference document(s):

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 Annex 1 / refer to Annex 1 / refer to Annex 1 / refer and NV-GLKEMA / issued by F11 as ASEFA approved lab.

Ca certificat ne s'applique qu'à l'échantillon soumis à l'essail de type / This certificate applies celly to the sample submitted to the type lest. Ca certificat à étà émis seton les dispositions des Règles de certification ASEFA en vigueur / This certificate has been issued under the provi

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





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

Every type of EasyPact EXE circuit breaker has been subjected to the following type tests, as defined by the IEC standard 62271-100: 2017-06 and Gost R 52565-2006:

- 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

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

- The circuit breaker type defined by the main rated characteristics: rated voltage, rated short-circuit breaking current, rated normal current
- Information about production site of the breaker

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

assembly instruction sheets available on website at www.schneider-electric.com.

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 Power Build Medium Voltage, 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.

EcoStruxure[™] ready solutions

Scalability with fit-for-purpose solutions

For customers who would like a digital approach, we propose an efficient and cost-effective alternative to breaker, cable and busbar thermo scanning using temperature wireless sensors and a smart phone app.

Easergy TH110

Wireless Thermal Sensor

A battery-less sensor, helping ensure continuous thermal monitoring to detect potential loose connections of:

- · Cable connections
- · Busbar connections
- · Circuit breaker arms

Local, on demand connectivity enables:

- · Nearby thermal monitoring on your smartphone up to 10 m from your switchgear
- Fast access to documentation via QR code



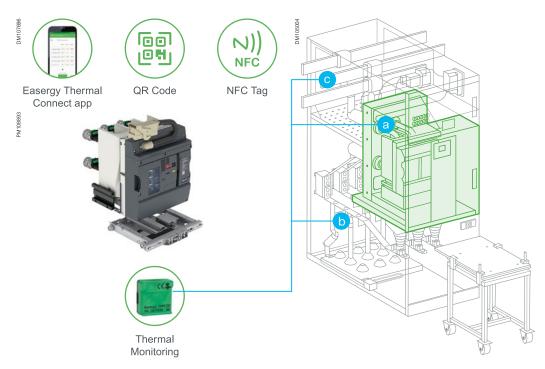
TH110 thermal sensor



Supported by our App to view and share temperature information

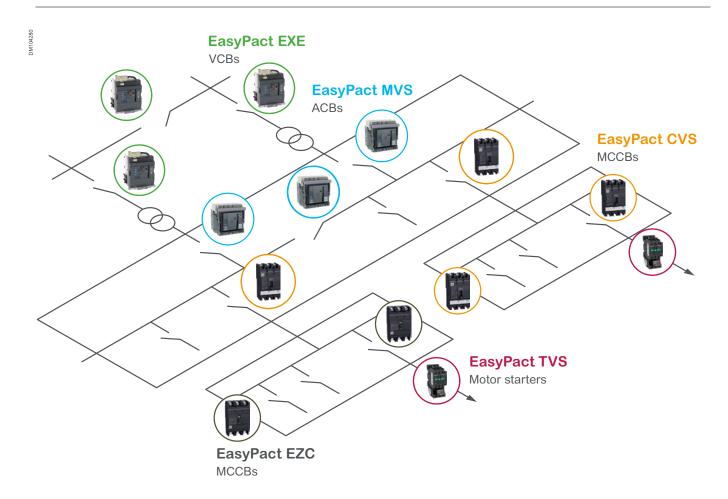
Enhanced for modern MV distribution

The connected switchgear is the perfect choice for intelligent distribution, helping to secure both new and existing operations. Thanks to its innovative tools and IoT capabilities, your switchgear can start to become future-ready.



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
Rated lightning impulse withstand (kV)	60/75
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 a.c. 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

Overview

A comprehensive solution

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



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

- 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

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

A comprehensive solution

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



Easergy P3





MiCOM range



PowerLogic 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 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

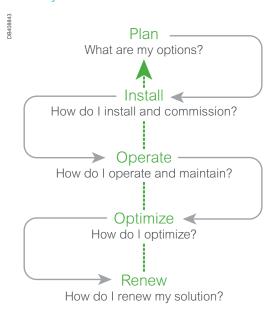
The VAMP arc protection unit detects an arc flash in an installation and trips the feeding breaker. The unique arc fault protection functionality enhances the safety of both people and property and has made VAMP a leading brand in arc protection relays worldwide.

Schneider Electric services

Peace of mind throughout your installation life cycle

How can you cut costs and same time?

Life Cycle Services



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

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

CONTACT US!

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

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 a 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 secured solutions based on your plans.

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

Operate

Schneider Electric helps you maximize your installation uptime and control your capital expenditure through its service offer.

- Asset operation solutions: Provide the information you need to 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 an optimized maintenance budget of your spare parts
- Technical training: Build the necessary skills and competencies to properly and efficiently operate your installations

Optimize

Schneider Electric can make recommendations for improved availability, reliability and quality.

MP4 electrical assessment of customer installations: Define an improvement and risk management program

Renew

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

We can offer an end of life processing of old electrical equipment.

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

Schneider Electric Services

Peace of mind throughout your installation life cycle

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:

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.

Electrical-Room	Equipment CRITICALITY					
ENVIRONMENTAL conditions	Minor	Major	Critical			
Favourable	5	5	4			
Normal	5	4	3			
Severe	4	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 should 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 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.



An industry leading portfolio of offers delivering sustainable value



More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACh substance information
- Industry leading # of PEP's*
- · Circularity instructions

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognized environmental claims and extended to cover all offers including Products. Services and Solutions.

CO₂ and P&L impact through... Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO₂ emissions.

Cost of ownership optimization through... Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

Peace of mind through... Well-being Performance

Green Premium products are RoHS and REACh compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through... Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.



Discover what we mean by green
Check your products!

Range description

Range description

Fixed Circuit Breaker (CB)	28
Main characterisitcs	28
Dimensions	29
Withdrawable Circuit Breaker (CB) Tulip Contact	30
Main characterisitcs	30
Dimensions	31
Withdrawable Disconnecting Device (DD) Tulip Contact	32
Main characterisitcs	32
Dimensions	33
General Characteristics	34
Service and storage conditions	34
Electrical characteristics (CB)	35

Fixed Circuit Breaker (CB)

Main characteristics



EasyPact EXE → ВАКУУМНЫЙ ВЫКЛЮЧАТЕЛЬ Uном: 10 кВ Uноп.гр.и: 75 кВ Iном: 630 A Iо.ном: 25 кА tк.з.: 3 с Раб. цикл: О-0,3с-ВО-15с-ВО fном: 50 Гц УЗ по ГОСТ 15150 Масса: 55 Кг ГОСТ 52565-2006 Год изготовления: 2017 Зав. №: SE-2016-W44-5-0014 Ref: EXE123112L1В

According to IEC 62271-100: 2012

-												
Phase distance (mm)				145	150	185	185	210	210	240	275	
Rated voltage	Ur	kV	12	•	•	•	•	•	•	•	•	
Rated frequency	fr	Hz	50/60	•	•	•	•	•	•	•	•	
Rated short duration power	Ud k	kV	38	•	•	•	•	•	•	•	•	
frequency withstand voltage			42	•	•	•	•	•	•	•	•	
Rated lightning impulse withstand voltage	Up	kV	75	•	•	•	•	•	•	•	•	
Rated short-circuit breaking	lsc kA	Isc	kA	20	•	•	•		•			
current			25	•	•	•	•	•	•			
			31.5	•	•	•	•	•	•	•	•	
Rated duration of short- circuit	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 should 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 1250 A may be required to achieve 42 kV power frequency withstand depending on the switchgear architecture.

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

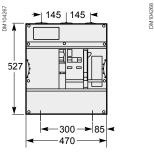


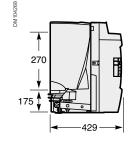
Fixed Circuit Breaker (CB)

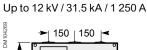
Dimensions

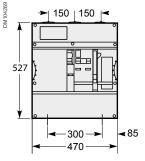
Phase distance 145 mm

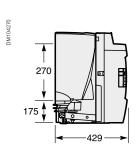
Up to 12 kV / 31.5 kA / 1 250 A





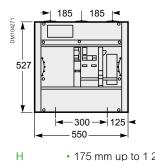


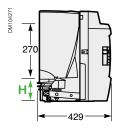




Phase distance 185 mm

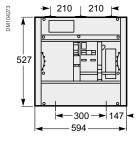
Up to 12 kV / 31.5 kA / 2 000 A

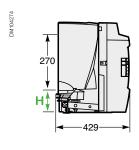




- 175 mm up to 1 250 A
- 158 mm for 1 600 A and 2 000 A

Up to 12 kV / 31.5 kA / 2 500 A

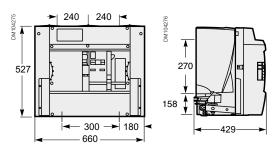




- 175 mm up to 1 250 A
 - 158 mm for 1 600 A, 2 000 A and 2 500 A

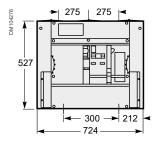
Phase distance 240 mm

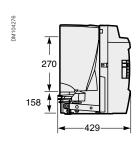
Up to 12 kV / 31.5 kA / 2 500 A



Phase distance 275 mm

Up to 12 kV / 31.5 kA / 2 500 A





Withdrawable Circuit Breaker (CB) - Tulip Contact

Main characteristics





According to IEC 62271-100: 2012

Designation	Dimensions and electrical characteristics																
Phase distance (mm)				150	210	210	275										
Rated voltage	Ur	kV	12	•	•	•	•										
Rated frequency	fr	Hz	50/60	•	•	•	•										
Rated short duration	Ud	kV	38	•	•	•	•										
power frequency withstand voltage			42	•	•	•	•										
Rated lightning impulse withstand voltage	Up	kV	75	•	•	•	•										
Rated short-circuit	lsc k	Isc	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 should 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

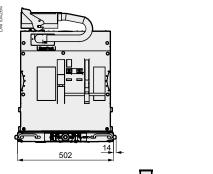
EasyPact EXE racking device enables Panel Builder to design switchgear solutions with enhanced safety features. It has a robust interlocking system with the switchgear door, the circuit-breaker and the earthing switch. It can be equipped with an electric motor for remote racking from the control room.

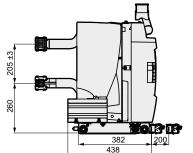
Withdrawable Circuit Breaker (CB) - Tulip Contact

Dimensions

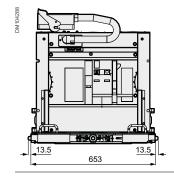
Phase distance 150 mm

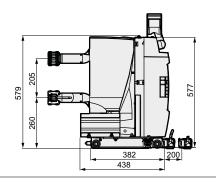
Up to 12 kV / 31.5 kA / 1 250 A



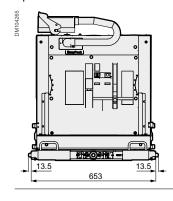


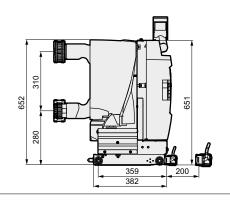
Up to 12 kV / 31.5 kA / 1 250 A



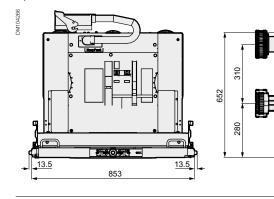


Up to 12 kV / 31.5 kA / 2 000 A





Up to 12 kV / 31.5 kA / 2 500 A



200

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 62271-102: 2013

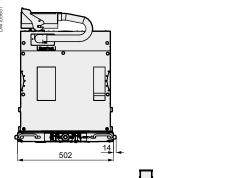
Designation	Dimensions and electrical characteristics						
Phase distance (mm)				150	210	210	275
Rated voltage	Ur	kV	12	•	•	•	•
Rated frequency	fr	Hz	50/60	•	•	•	•
Rated short duration	Ud	kV	38	•	•	•	•
power frequency withstand voltage			42	•	•	•	•
Rated lightning impulse withstand voltage	Up	kV	75	•	•	•	•
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	Ir	Α	1 250	•	•		
			2 000			•	
			2 500				•

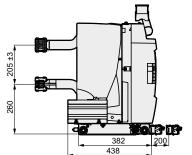
Withdrawable Disconnecting **Device (DD) - Tulip Contact**

Dimensions

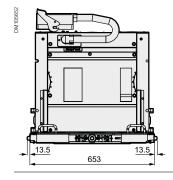
Phase distance 150 mm

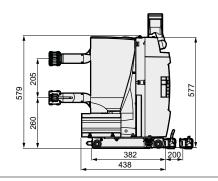
Up to 12 kV / 31.5 kA / 1 250 A



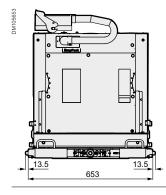


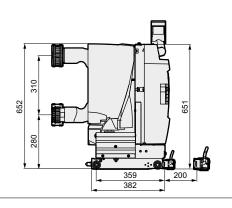
Up to 12 kV / 31.5 kA / 1 250 A



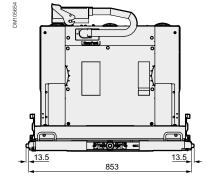


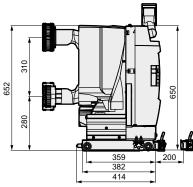
Up to 12 kV / 31.5 kA / 2 000 A





Up to 12 kV / 31.5 kA / 2 500 A





General characteristics

Service and storage conditions

Normal service conditions

According to IEC 62271-1: 2017 GOST R52565:2006

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.

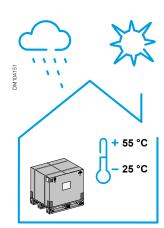
Storage

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 -25°C and +55°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.



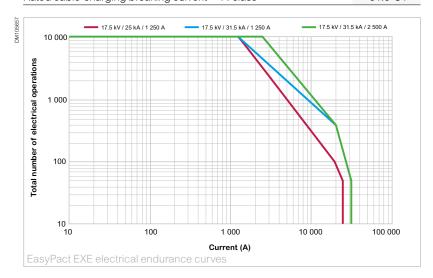
General characteristics

Electrical characteristics (CB)



According to IEC 62271-100, Gost R 52565-2006

Common characteristics		12 kV
Rated short-time withstand current (Ik/tk)	kA/3s (50/60 Hz)	= 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
	Breaking	< 66 ms
	Closing	< 71 ms
Mechanical endurance	Class	M2
Electrical endurance	Class	E2
Electrical endurance at lsc	20 kA	100
Nb of breaking operations	25 kA	50
	31.5 kA	50
Rated line-charging breaking current	A-class	10-C1
Rated cable-charging breaking current	A-class	31.5-C1



Mechanical endurance

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

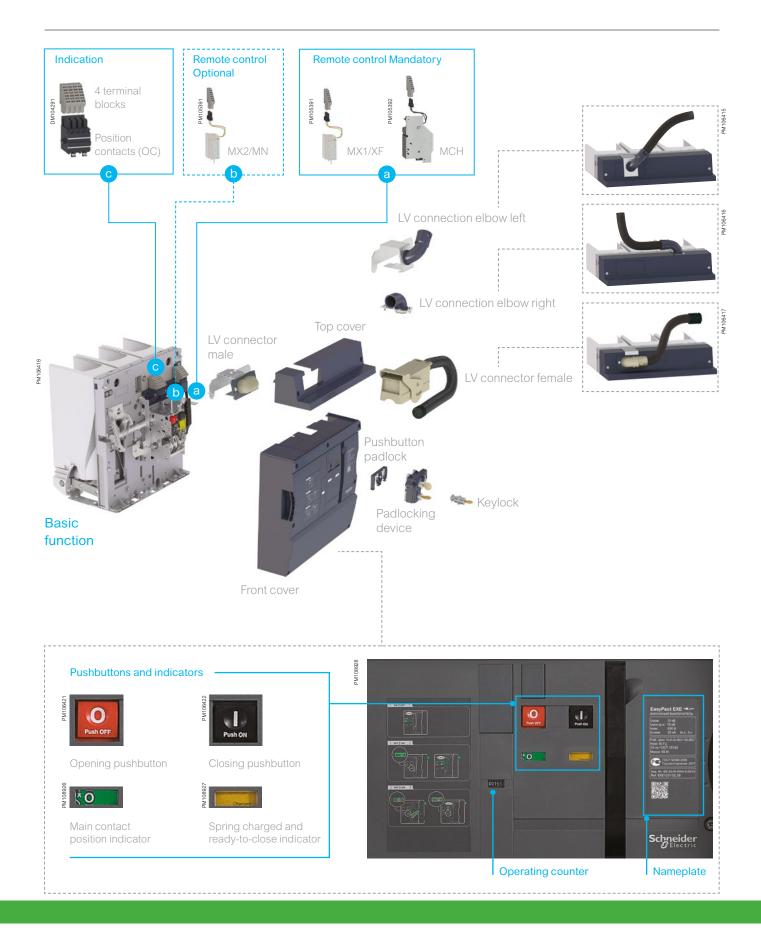
Mechanical endurance	
Circuit breaker	M2 (IEC 62271-100: 2012) 10 000 operating cycles
Racking trolley	M1 (IEC 62271-102: 2018) 2 000 operating cycles
(disconnecting functions)	
MCH motor	10 000 charging operations
MX/XF, MN releases	10 000 operations

Function and modules description

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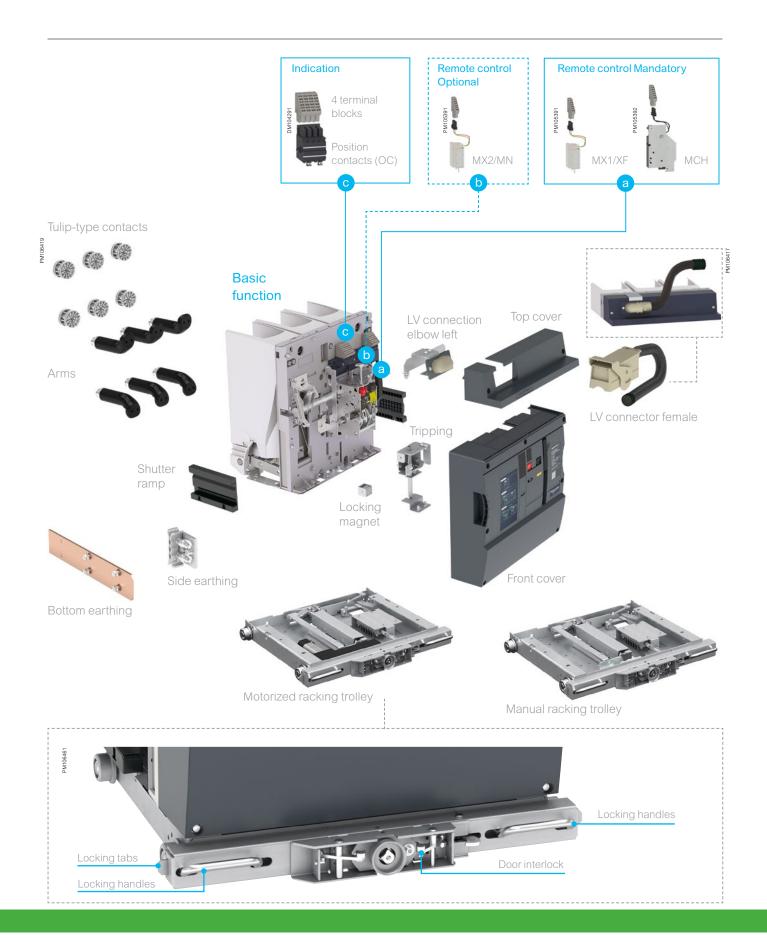
Overview

Fixed Circuit Breaker



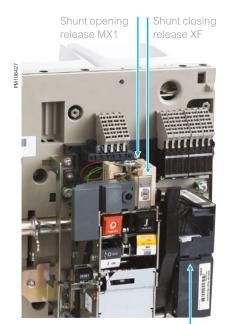
Overview

Withdrawable Circuit Breaker



Remote control auxiliaries

Mandatory auxiliaries



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
MCH 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	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, 1	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)	nsumption (VA or W) Triggering 200 (for 200 ms)				
	Latched	4.5			

Remote control auxiliaries

Optional auxiliaries



release MX2 or Under voltage release MN





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, 48-60	V, 100-130 V, 200-250 V		
	• AC (50Hz/60Hz): 2	4 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, 48-6	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)

"Ready to close"

PF contact

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.

Position contacts (OC)

The maximum number of position contacts is twelve.

Characteristics

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

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

"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		Va.c.	240/380	5
		V d.c.	24/48	3
			125	0.3
			250	0.15

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.

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 circuit-breaker and the earthing switch.

It can be equipped with an electric motor for remote racking from the control room.



The Racking Device is composed of 3 elements:

- Racking Trolley
- Shutter Ramp
- Tripping







- · A racking trolley 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
- 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:
 - Earthing switch
 - Circuit breaker
- An optional motor drive that rotates to move the circuit breaker inside the circuit breaker compartment.



Tripping



Bottom earthing



Side earthing

Earthing

The racking device is earthed using bar earthing or through side earthing.



Motor controller

Motor controller

The motor controller is required for the remote operation of racking device, it have also have the feature of over-current protection.

Locking

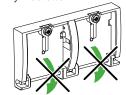
Fixed Circuit Breaker

Screen for pushbutton padlocking

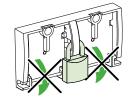
An optional transparent screen can prevent access to the opening and/or closing pushbuttons on the circuit breaker.

Locking is achieved by means of one of the following:

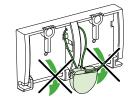
By 2 screws

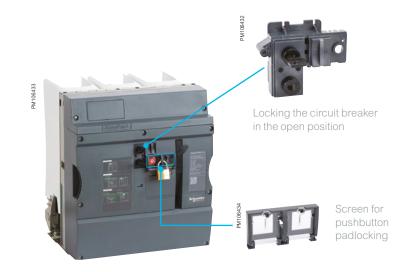


By 3 padlocks (not supplied with the circuit breaker)



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 ...).

LV connection

Fixed Circuit Breaker



Elbow on the right



Elbow on the left



LV terminal

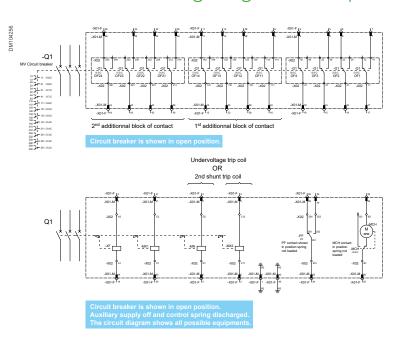


58 pin male connector

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 58 pin male connector with flexible duct mounted on circuit breaker and a 58 pin female connector mounted on the switchgear frame to be connected to the LV cabinet.

Fixed version wiring diagram example



Note: please refer to the detail of drawing NNZ7536800.

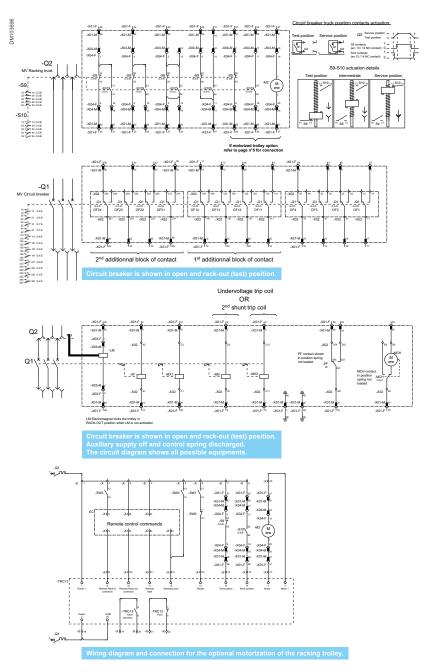
LV connection

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 58 pins) may limit the number of available position contacts for the switchgear LV cabinet.

Withdrawable version wiring diagram example



Note: please refer to the detail of drawing NNZ7536700.

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					
	DM103801	Racking-in	DM103899	DM/103938		
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	Unlocked	Unlocked		
Circuit Breaker main contacts position	OPEN / CLOSED	OPEN	OPEN / CLOSED	OPEN / CLOSED		
Earthing switch			Earthing Switch OPEN			
mechanical link position	Earthing Switch OPEN	Earthing Switch OPEN	Earthing Switch CLOSED			
Shutters	OPEN	OPERATING	CLOSED	CLOSED		

Product references

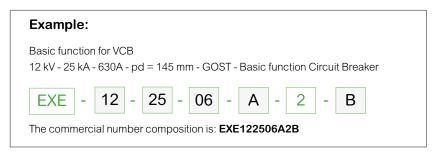
Product references

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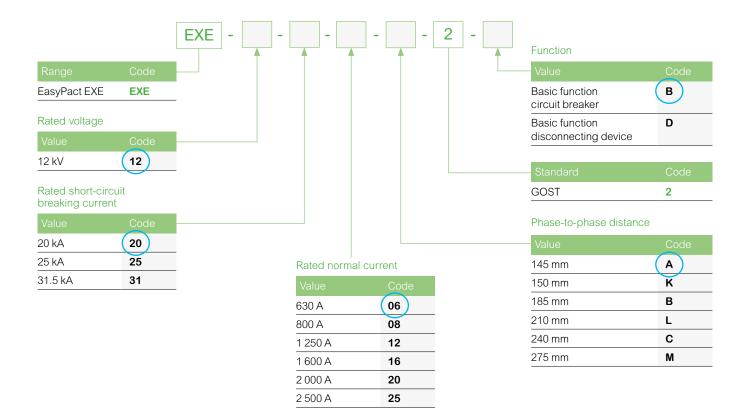
Commercial reference numbering system

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 - 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

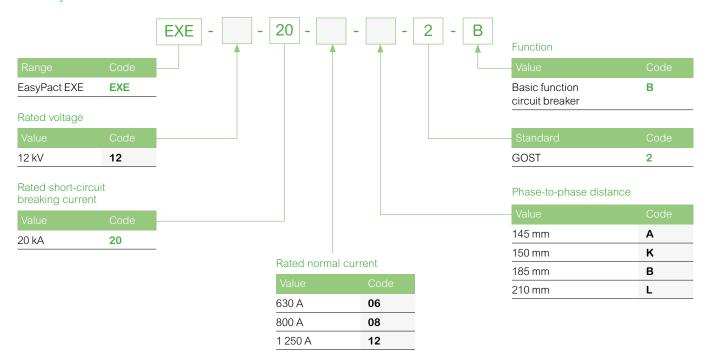
Additional options may be added, using the catalog product references.

Basic	Basic function							
Phase	distance (mm)	145	185	240	150	210	275	
	630 A	EXE122006A2B	EXE122006B2B	-	EXE122006K2B	EXE122006L2B	-	
	800 A	EXE122008A2B	EXE122008B2B	-	EXE122008K2B	EXE122008L2B	-	
12 kV	1 250 A	EXE122012A2B	EXE122012B2B	-	EXE122012K2B	EXE122012L2B	-	
12 KV	1 600 A	-	-	-	-	-	-	
	2 000 A	-	-	-	-	-	-	
	2 500 A	-	-	-	-	-	-	

Notes

• The 12 kV basic function may be used for 7.2 kV rated voltage

Check your commercial number:



Basic function Circuit Breaker (CB)

12 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

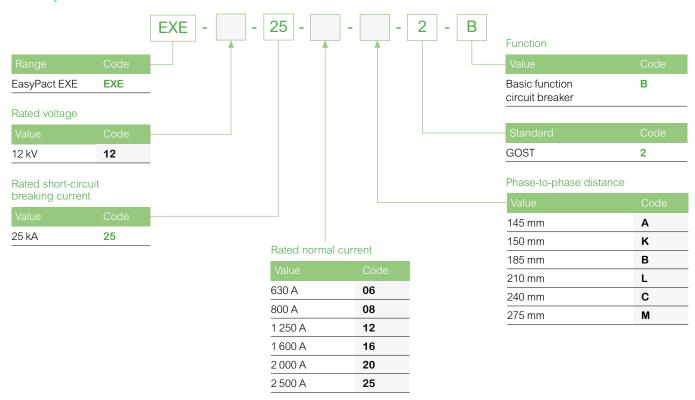
Additional options may be added, using the catalog product references.

Basic function										
Phase	distance (mm)	145	185	240	150	210	275			
	630 A	EXE122506A2B	EXE122506B2B	-	EXE122506K2B	EXE122506L2B	-			
	800 A	EXE122508A2B	EXE122508B2B	-	EXE122508K2B	EXE122508L2B	-			
12 kV	1 250 A	EXE122512A2B	EXE122512B2B	-	EXE122512K2B	EXE122512L2B	-			
12 KV	1 600 A	-	EXE122516B2B	-	-	EXE122516L2B	-			
	2 000 A	-	EXE122520B2B	-	-	EXE122520L2B	-			
	2 500 A	-	-	EXE122525C2B	-	EXE122525L2B	EXE122525M2B			

Notes

• The 12 kV basic function may be used for 7.2 kV rated voltage

Check your commercial number:



Basic function Circuit Breaker (CB)

12 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

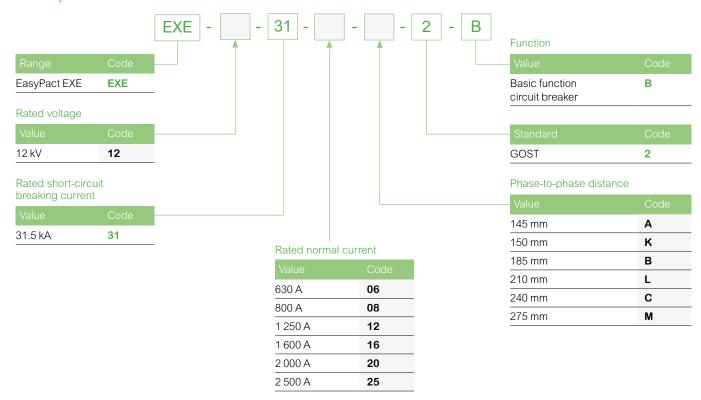
Additional options may be added, using the catalog product references.

Basic function										
Phase	distance (mm)	145	185	240	150	210	275			
	630 A	EXE123106A2B	EXE123106B2B	-	EXE123106K2B	EXE123106L2B	-			
	800 A	EXE123108A2B	EXE123108B2B	-	EXE123108K2B	EXE123108L2B	-			
12 kV	1 250 A	EXE123112A2B	EXE123112B2B	-	EXE123112K2B	EXE123112L2B	-			
12 KV	1 600 A	-	EXE123116B2B	-	-	EXE123116L2B	-			
	2 000 A	-	EXE123120B2B	-	-	EXE123120L2B	-			
	2 500 A	-	-	EXE123125C2B	-	EXE123125L2B	EXE123125M2B			

Notes

• The 12 kV basic function may be used for 7.2 kV rated voltage

Check your commercial number:



Basic function Disconnecting Device (DD)

12 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

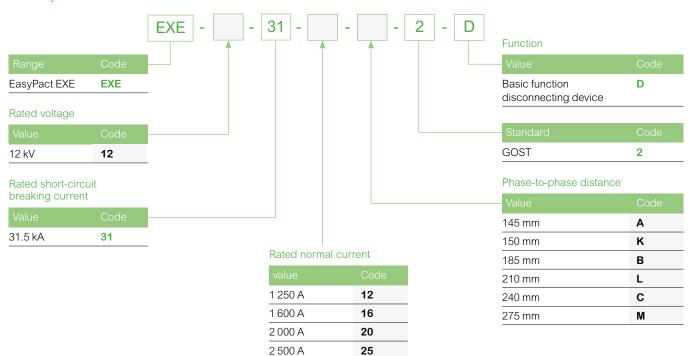
Additional options may be added, using the catalog product references.

Basic function									
Phase	distance (mm)	150	210	275					
	630 A	-	-	-					
	800 A	-	-	-					
12 kV	1 250 A	EXE123112K2D	EXE123112L2D	-					
12 KV	1 600 A	-	-	-					
	2 000 A	-	EXE123120L2D	-					
	2 500 A	-	-	EXE123125M2D					

Notes

• The 12 kV basic function may be used for 7.2 kV rated voltage

Check your commercial number:



Remote control and thermal monitoring auxiliaries

Mandatory auxiliaries		Voltage		References
#	Electric motor MCH	DC	24-30 V	EXECH02D
			48-60 V	EXECH04
			100-125 V	EXECH10D
O dame			200-250 V	EXECH20D
	Electric motor MCH	AC (50/60 Hz)	48-60 V	EXECH04
			100-130 V	EXECH10A
			200-240 V	EXECH20A
M	Opening release MX &	DC	24-30 V DC/24 V AC	59284
	closing release XF	AC (50/60 Hz)	48-60 V DC/48 V AC	59285
			100-130 V DC/100-130 V AC	59286
dist			200-250 V DC/200-250 V AC	59287
Optional auxiliaries		Voltage		References
MA	Opening release MX (2nd)	DC	24-30 V DC/24 V AC	59284
		AC (50/60 Hz)	48-60 V DC/48 V AC	59285
			100-130 V DC/100-130 V AC	59286
			200-250 V DC/200-250 V AC	59287
M	Undervoltage release MN	DC	24-30 V DC/24 V AC	59288
		AC (50/60 Hz)	48-60 V DC/48 V AC	59289
			110-130 V DC/100-130 V AC	59290
			200-250 V DC/200-250 V AC	59291

Indication		Description	References
2357	Additional position contacts	4 NO/NC auxiliary contact 5 A - 240 V	EXE47887
PM1089	OC (1 or 2 blocks of 4 NO/ NC maximum)	Auxiliary Terminal Block 3-Wire	4x EXE47074
PM/06928			

Racking Device motor controller (Installed in LV cabinet)	Description	References
E C	Racking device Low voltage motor controller 110 V AC/DC	EXETRLMC10
Name of the last o	Racking device Low voltage motor controller 220 V AC/DC	EXETRLMC20

Remote control and thermal monitoring auxiliaries

Thermal Sensor with electric motor MCH	Description	References
8266 C—	Remote Control Motor 24-30 V DC with 1 set TH110	EXECH02DTH1
PM109020	Remote Control Motor 48-60 V DC/V AC with 1 set TH110	EXECH04TH1
	Remote Control Motor 100-125 V DC with 1 set TH110	EXECH10DTH1
	Remote Control Motor 200-250 V DC with 1 set TH110	EXECH20DTH1
	Remote Control Motor 100-125 V AC with 1 set TH110	EXECH10ATH1
0	Remote Control Motor 200-250 V AC with 1 set TH110	EXECH20ATH1
	Remote Control Motor 24-30 V DC with 2 set TH110	EXECH02DTH2
	Remote Control Motor 48-60 V DC/V AC with 2 set TH110	EXECH04TH2
	Remote Control Motor 100-125 V DC with 2 set TH110	EXECH10DTH2
	Remote Control Motor 200-250 V DC with 2 set TH110	EXECH20DTH2
	Remote Control Motor 100-125 V AC with 2 set TH110	EXECH10ATH2
	Remote Control Motor 200-250 V AC with 2 set TH110	EXECH20ATH2
	Remote Control Motor 24-30 V DC with 3 set TH110	EXECH02DTH3
	Remote Control Motor 48-60 V DC/V AC with 3 set TH110	EXECH04TH3
	Remote Control Motor 100-125 V DC with 3 set TH110	EXECH10DTH3
	Remote Control Motor 200-250 V DC with 3 set TH110	EXECH20DTH3
	Remote Control Motor 100-125 V AC with 3 set TH110	EXECH10ATH3
	Remote Control Motor 200-250 V AC with 3. set TH110	EXECH20ATH3
	Remote Control Motor 24-30 V DC with 4 set TH110	EXECH02DTH4
	Remote Control Motor 48-60 V DC/V AC with 4 set TH110	EXECH04TH4
	Remote Control Motor 100-125 V DC with 4 set TH110	EXECH10DTH4
	Remote Control Motor 200-250 V DC with 4 set TH110	EXECH20DTH4
	Remote Control Motor 100-125 V AC with 4 set TH110	EXECH10ATH4
	Remote Control Motor 200-250 V AC with 4 set TH110	EXECH20ATH4

Consumable Kits	Description	References
PWIGBB13	Zigbee Dongle + Adaptor	REL52867
PM108914	Ferromagnetic ribbon (62M min)	EMS59441
SLEGO ETUXURE NFC To connect	NFC Tag (50 units min)	REL52862

Withdrawability

MV connection - Tulip contact

Caption: Only identical colour shapes can be associated.

Arms for Tulip cluster					Description	References
	Phas	se dist	ance ((mm)		
	150	21	0	275		
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
111		♦			MV Arms 800 A - 1250 A Insulated for Tulip cluster with Up = 95 kV	EXEARM12B1

Note: Each Circuit Breaker requires two sets.

Field deflector					Description	References
Set of 3 Field Deflectors	Phase distance (mm)					
	150	21	0	275		
PM108917	_	•	♦		Field Deflectors up to 1 250 A (optional for fix version)	EXEFLDF

Tulip cluster					Description	References
Set of 6 Tulip cluster	Phase distance (mm)					
8	150	21	10	275		
PM1064	•	♦			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

Caption: O	Only identical	colour shapes	can be	associated.
------------	----------------	---------------	--------	-------------

		stroke ance (Description	References
		ance (mml		
150	21		(111111)		
		0	275		
				Racking trolley 150 mm stroke 200 mm manual	EXETRKKB2
		*		Racking trolley 210 mm stroke 200 mm manual	EXETRKLB2
				Racking trolley 275 mm stroke 200 mm manual	EXETRKMB2
for 2	200 m	m stro	ke	Description	References
Phas	e dist	ance (mm)		
150	21	0	275		
				Racking trolley 150 mm stroke 200 mm motorized 110 V AC/V DC	EXETRKKB2M10
		•		Racking trolley 210 mm stroke 200 mm motorized 110 V AC/V DC	EXETRKLB2M10
				Racking trolley 275 mm stroke 200 mm motorized 110 V AC/V DC	EXETRKMB2M10
				Racking trolley 150 mm stroke 200 mm motorized 220 V AC/V DC	EXETRKKB2M20
		♦		Racking trolley 210 mm stroke 200 mm motorized 220 V AC/V DC	EXETRKLB2M20
				Racking trolley 275 mm stroke 200 mm motorized 220 V AC/V DC	EXETRKMB2M20
				Description	References
Phas	e dist	ance (mm)		
150 210 275		·			
	•	♦		Racking trolley bottom earthing	EXETRECB2
	•	♦		Racking trolley side earthing	EXETRECB1
				Description	References
Phas	e dist:	ance ((mm)		
150			275		
		•		Racking trolley base phase distance 210 mm stroke 200 mm CD 310 mm	EXETRPBL
					EXETRPBM
				5 / F	
				Description	References
Phas			· /		
150	21	0	275		
				Shutter ramp CD 205 mm 1250 A	EXESHRP5
		•		Shutter ramp CD 310 ≥ 1600 A	EXESHRP2
wab	le VCI	В		Description	References
Phas					
150	21	0	275		
				Trolley Tripping Component ≤1250 A	EXETRIP5
		♦		Trolley Tripping Component ≥1250 A	EXETRIP6
	Phas Phas Phas Phas Phas Phas Phas Phas	Phase dist	Phase distance (Phase distance (Phase distance (mm) Chase distance (mm)	Racking trolley 150 mm stroke 200 mm motorized 110 V AC/V DC Racking trolley 210 mm stroke 200 mm motorized 110 V AC/V DC Racking trolley 275 mm stroke 200 mm motorized 110 V AC/V DC Racking trolley 275 mm stroke 200 mm motorized 220 V AC/V DC Racking trolley 150 mm stroke 200 mm motorized 220 V AC/V DC Racking trolley 210 mm stroke 200 mm motorized 220 V AC/V DC Racking trolley 275 mm stroke 200 mm motorized 220 V AC/V DC Racking trolley 275 mm stroke 200 mm motorized 220 V AC/V DC Phase distance (mm) Racking trolley bottom earthing Racking trolley side earthing Phase distance (mm) Racking trolley base phase distance 210 mm stroke 200 mm CD 310 mm Racking trolley base phase distance 275 mm stroke 200 mm CD 310 mm Racking trolley base phase distance 275 mm stroke 200 mm CD 310 mm Phase distance (mm) Shutter ramp CD 205 mm 1250 A Shutter ramp CD 310 ≥ 1600 A Phase distance (mm) Thase distance (mm)

LV connection

Fixed type LV connection

LV 58 pins connector (M&F)		Description	References
PM-1089200	For fixed VCB	LV 58 pins connector (Male & Female)	EXPLWB
Elbow for LV connection			
W105389	Elbow	LV connection elbow right	EXEELR
		LV connection elbow left	EXEELL
PM106463			

Withdrawable type LV connection

LV 58 pins connector (M&F)		Description	References
PM108920	For withdrawable VCB	LV 58 pins connector (Male & Female)	EXPLWB

Locking

Locking accesso	ries for Fixed type	Description	Description			
LIZZEDINIA Q Q	Padlocking device	Locking of the (key locks not	e circuit breaker in the open position by padlock supplied)	EXE48541		
PM108922	Locking of the circuit	Flat key	1 key lock + 2 flat keys	41940		
PM1	breaker in the open position by keylocks		2 key locks + 1 flat key (1)	41950		
M108923	Locking of the circuit	Cylindrical	1 key lock + 2 cylindrical keys	42888		
PM1	breaker in the open position by keylocks	key	2 key locks + 1 cylindrical key (1)	42878		
PM106434	Push button padlock	0	Disabling of O/C circuit breaker pushbutton (padlock not supplied)			

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

Locking accessories for withdrawable type	Description	References
99924	Racking device locking magnet 24 V DC - V AC	EXETR2LKMA02
PM4	Racking device locking magnet 48 V DC - V AC	EXETR2LKMA04
	Racking device locking magnet 110 V DC - V AC	EXETR2LKMA10
•	Racking device locking magnet 220 V DC - V AC	EXETR2LKMA20

Accessories

Labels		Description	References
	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
PM108925	Truck operating shaft	EXESHFT2

Spare parts

- Only end users (level 2) are allowed to replace the components listed below. These kit components should 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 Electric

Ва	sic function circuit	breaker	Description	References
PM106431	8169	Operating counter	Counter	48535
PM106430		Ready to close contact PF	Ready to close contact 51-240 V	47080

Device covers		Description	References
PM106458	Removable top cover	Removable top cover with screw	EXECOTO
BEST OF THE STATE	Main front cover for CB	Circuit Breaker main front cover with screw (1)	EXECOFRCB
PMT06489	Main front cover for DD	Disconnecting Device main front cover with screw (1)	EXECOFRDD

⁽¹⁾ Please contact Schneider Electric sales representative for more information to obtain nameplate of the Device.

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L-Frame cradle

L-Frame cradle

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Introduction

The L-Frame cradle is supplied as a self-supporting frame, including all interlocks and racking features, and help provide a reliable and cost-effective solution for integration in a wide range of indoor Air Insulated Switchgear.

The L-Frame cradle brings the benefits of Schneider Electric proven technology to the design and manufacture of withdrawable switchgear cubicles.

It provides to our Partners a complete solution with connection of the circuit breaker to the contacts in the bushings and allows the Partners to focus and shorten the design of the switchgear.



Cradle for integration of switching devices

The L-Frame cradle is delivered fully assembled and ready for integration of EasyPact EXE circuit breakers and consists of:

- · A left and a right sides frames
- · Shutters with their shutter mechanisms
- · Rails for guiding the circuit breaker from test to service position
- · Bushings with fixed contacts
- · Copper bars for connection to the main Busbar of the switchgear
- Two holes on the front of the L-Frame cradle for guiding and aligning the extraction table
- · A self-supporting frame

As an option, it includes a fully rated and interlocked earthing switch. It can give to the Partners the advantage of a type tested solution for the earthing switch.



Earthing switch

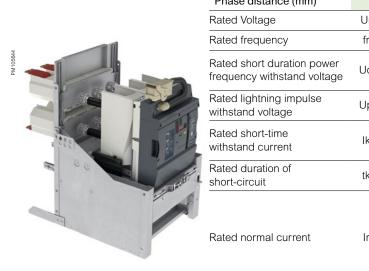
The earthing switch is assembled and set by the Schneider Electric manufacturing plant. For 12 kV, only the fixed contacts (quantity 3 delivered with the L-Frame cradle as loose components) will have to be assembled and adjusted on the main circuit of the switchgear.

The earthing switch includes:

- An operating mechanism mounted on the right side of the L-Frame cradle
- A power circuit unit with a fast-acting closing mechanism independent of the operator
- A mechanical interlocking with the circuit breaker and prevents:
 - racking in the circuit breaker if the earthing switch is closed
 - closing the earthing switch if the circuit breaker is not opened and fully racked out

Introduction

According to IEC 62271-200: 2011-10



Designation	Dimensions and electrical characteristics					
Phase distance (mm)				150	210	275
Rated Voltage	Ur	kV	12	•	•	•
Rated frequency	fr	Hz	50 / 60	•	•	•
Rated short duration power	Ud	kV	38	•	•	•
frequency withstand voltage	ou	ΚV	42	•	•	•
Rated lightning impulse withstand voltage	Up	kV	75	•	•	•
Rated short-time	lk	kA	25	•	•	•
withstand current	IK		31.5	•	•	•
Rated duration of short-circuit	tk	S	3	•	•	•
			630 / 800	•	•	
Rated normal current	Ir	Α	1 250	•	•	
nated normal earlest		, ,	1 600 / 2 000		•	
			2 500			•
Preferred cubicle width	mm		650	800	1000	

L-Frame cradle references

Cradle without earthing switch

	Phase	distance (m	m)	150	210	275
gr95011WI	12 kV	Up to 1 250 A	Up to 31.5 kA	AVXN10478-16	AVXN10478-17	-
		1 600 A / 2 000 A	Up to 31.5 kA	-	AVXN10478-18	-
		2 500 A	Up to 31.5 kA	-	-	AVXN10478-19

Cradle with earthing switch

		<u> </u>				
	Phase distance (mm)		150	210	275	
ZH9501IMd	12 kV	Up to 1 250 A	Up to 31.5 kA	AVXN10478-01	AVXN10478-12	-
		1 600 A / 2 000 A	Up to 31.5 kA	-	AVXN10478-13	-
		2 500 A	Up to 31.5 kA	-	-	AVXN10478-14
3,4						

Earthing Switch handle	Description	Reference
87950 JWd	Earthing switch operating handle	CHD1000063P0005

Note: The 12 kV cradle may be used for 7.2 kV rated voltage / Please contact your Schneider Electric sales representative for more information

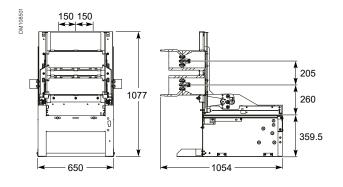
Dimensions

Without Earthing switch

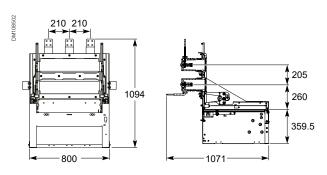
Up to 12 kV

Up to 31.5 kA / Up to 1 250 A

Phase distance 150 mm

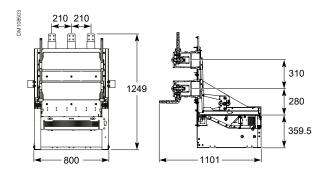


Phase distance 210 mm



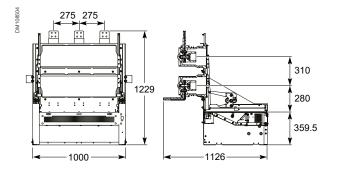
31.5 kA / Up to 1 250 A, up to 31.5 kA / 1 600 A - 2 000 A

Phase distance 210 mm



Up to 31.5 kA / 2 500 A

Phase distance 275 mm



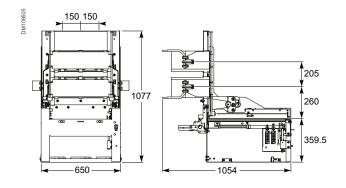
Dimensions

With Earthing switch

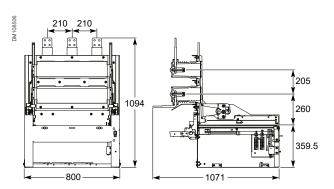
Up to 12 kV

Up to 31.5 kA / Up to 1 250 A

Phase distance 150 mm

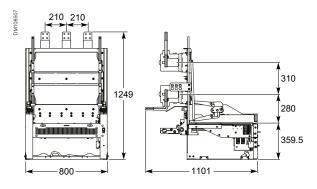


Phase distance 210 mm



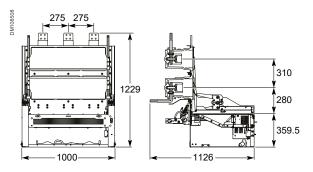
31.5 kA / Up to 1 250 A, up to 31.5 kA / 1 600 A - 2 000 A,

Phase distance 210 mm



Up to 31.5 kA / 2 500 A

Phase distance 275 mm



L-Frame cradle

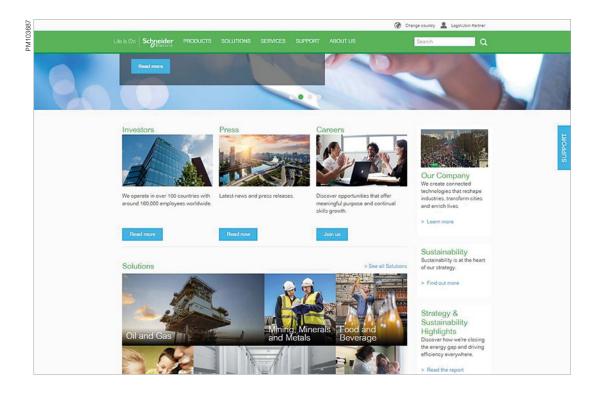


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35, rue Joseph Monier CS 30323 92506 Rueil Malmaison Cedex France

RCS Nanterre 954 503 439 Capital social 896 313 776 € www.se.com

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