EcoStruxure™
Innovation At Every Level



PacT Series

EvoPacT™ HVX

Catalog 2026

Vacuum Circuit Breakers
up to 36 kV
The next generation of HVX digital
MV Circuit Breaker

July, 2026

se.com/evopact

Schneider Electric™

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Discover the benefits of EvoPacT HVX



More uptime

Detect thermal hotspots and circuit breaker misalignment to help prevent downtime.



Native best-in -class sensing

Embedded sensors for Circuit Breaker (CB) health trend visibility.

Up to 40% less maintenance

EcoCare's indexes help reduce maintenance.

High Ratings, No SF_6

Latest vacuum CB technology delivers high ratings without SF_6.



Circuit Breaker health monitoring

Monitor vacuum interrupters and mechanism health.

Longer Service Life

Up to 5x more operations for lasting performance.

Operate Beyond the arc-flash Zone

Nearby or remote operation helps reduce risks.



4 first steps to become **uptime champion** with EvoPacT HVX

Step 1

Built for the New Energy World

EvoPacT HVX, build on decades of expertise to deliver unprecedented levels of reliability, enhancing the safety of both operators and facilities. They are also built for the New Energy World, lasting up to five times longer compared to previous designs.

Ready for the high-density power needs of data centers and renewable integration.

Challenges you had never faced before. Evo**PacT** HVX redefines reliability.



Up to 5x

Operations at normal rated current,

Up to 50 000 for 12/17.5kV,
Up to 30 000 for 24kV,
Up to 20,000 for 36kV

Step 2

24/7 Monitoring

Add an EcoCare Membership and you've got an entire expert team behind you watching your systems 24/7.

Using performance data captured by built-in sensors tracking temperature, environment, vacuum interrupter health, mechanism health and alignment of the circuit breaker.

Feeding advanced AI models to predict issues before they happen and stop downtime.

Helps reduce unplanned downtime

by up to 75x*



*This percentage is non-contractual and is based on our experience and expertise for the main root cause of electrical failure risk observed in low and medium-voltage equipment and for which Schneider Electric has developed solutions. Visit se.com/ecocare

Step 3

Maintenance Only When Needed

Say bye-bye to the days of intrusive, unnecessary shutdowns.

With EcoCare's health and maintenance indexes you unlock condition-based maintenance at scale.

Servicing only when truly needed. Giving you the flexibility for maintenance at the right time.

More uptime. Less wasted effort.

Shifting from calender-based maintenance to an **AI-powered condition-based strategy** which reduces unnecessary and intrusive work.

Instead of servicing equipment on fixed schedules, advanced sensors and AI-driven health and maintenance indexes track real operating conditions, so maintenance happens only when it's truly needed.

Help prevent needless shutdowns, and boots team efficiency, reducing intrusive maintenance

by over 40%*



*Percentage calculation when manufacturer recommended maintenance is extended by up to two years, from three to five years.

Step 4

Faster Replacement

And when the time comes to replace circuit breakers, advanced health indexes tells you **exactly which ones** - enabling a smooth, **EvoPacT HVX replacement.**

Continuity preserved, disruption minimized.



Meet EvoPacT:
The most intelligent* MV Circuit Breaker



EvoPacT HVX vacuum circuit breakers are digital by design. Intelligence from up to 5 types of embedded **condition-monitoring sensors**, continuously measuring the circuit breaker's actual operating state.



*Most intelligent based on AI-powered models and indexes built with continuous data from up to 5 exclusive condition monitoring sensors.

Meet EvoPacT:
The most intelligent* MV Circuit Breaker



Vacuum interrupter monitoring

A dedicated sensor measures the snatch gap over time, tracking real contact erosion from the very first operation. Feeding advanced aging algorithms to predict remaining life and helping ensure optimal electrical performance.



Mechanism monitoring

A speed sensor tracks the opening and closing performance of the operating mechanism—any decline in velocity is flagged long before safety or reliability is compromised.



Coils and motors health monitoring

Helping ensure timely replacement and consistent energy deployment for every operation.

*Most intelligent based on AI-powered models and indexes built with continuous data from up to 5 exclusive condition monitoring sensors.

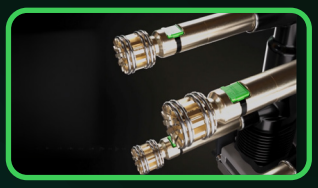
Help preventing hidden risks

Circuit Breakers may be unknowingly misaligned when racked in and can lead to severe arc-flash risk. EvoPacT helps prevent this with two layers of protection:

1 **Alignment Sensor**
Helps ensure accurate mechanical alignment inside the cabinet, verifying proper engagement of the MV contacts.



2 **Thermal Sensors**
On every arm detect abnormal heat signatures caused by poor connections, contamination, contact wear, or load imbalance—catching issues early, before they escalate into failures.

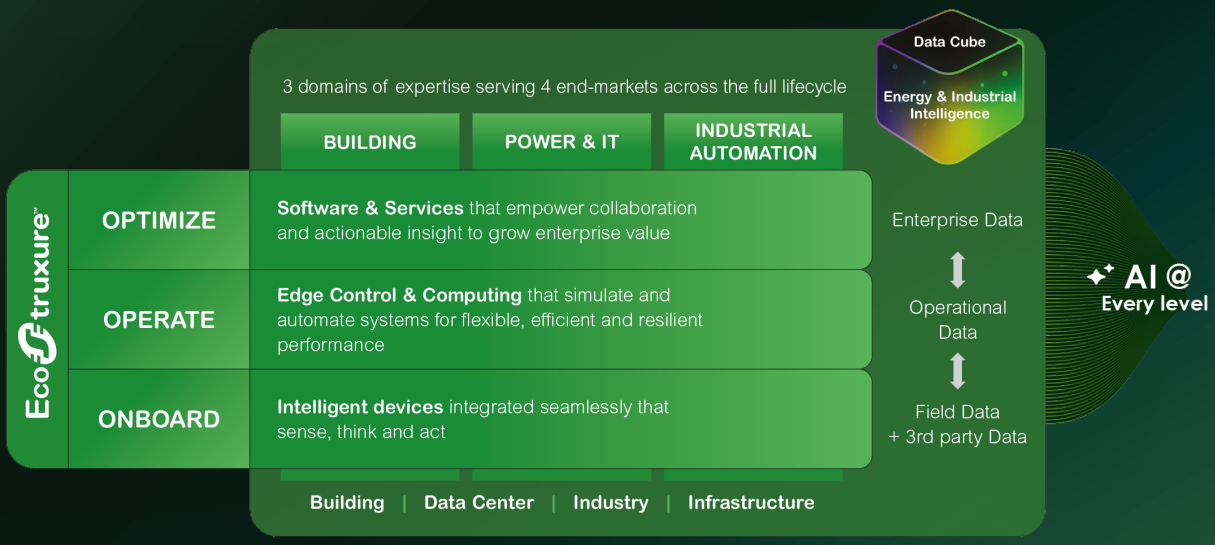


Digital Intelligence that stays with the circuit breaker

A smart circuit breaker monitoring module continuously records all sensor data, preserving a unique digital health profile for each circuit breaker - even after replacement.

EvoPacT HVX intelligent devices at the foundation of EcoStruxure

EcoStruxure is our digital foundation that connects every layer of the energy world, from the smallest device to the largest grid, from the edge to the cloud.



We first **onboard** intelligent, AI-enabled devices – like Evo**PacT** HVX that connect the physical and digital worlds so our customers can get the information needed to reach the goals they set out to achieve.

At the **operate** level, we offer solution for edge control and computing enable real-time control and orchestration of connected devices – driving operational efficiency, reliability, and performance through dynamic, secure execution environments.

The **optimize** level is all about transforming enterprise data into strategic insights for efficiency, collaboration, and continuous improvement with our Software & Services offer.

Built-in sustainability

We are dedicated to advancing sustainable power distribution, Evo**PacT** HVX enhances sustainability by offering:

Modularity and easy upgrades that allow quick adaptation to evolving business needs - whether integrating new sensors or replacing aging components.



A long-lasting circuit breaker designed for up to 50,000* operations, reducing the frequency of replacements (12kV).

X5

Vacuum interruption technology that helps eliminate fluorinated gases, even at high ratings.



Condition-based maintenance through EcoCare membership, reducing the service needs by up to 40% and minimizing environmental impact.



Additionally, our new Environmental Data Program provides a transparent, data-driven framework designed to support and guide environmentally responsible decisions.



Environmental Data Program

*See page 7 for further information



Scalable and modular to meet your needs

Scalable intelligence for the right fit

Designed to be modular, flexible, and easily upgraded, Evo**PacT** HVX circuit breakers come in a scalable range of connectivity tiers, to fit your growing needs.

Whether you start with the standard Evo**PacT,** Active, Evo**PacT** Active Plus, sensors, monitoring, and control features are easily scaled.

	EvoPacT Active	EvoPacT Active Plus
Edge and cloud connectivity	☑	☑
Remote monitoring (App)	☑	☑
Local HMI (monitoring & control)	☑	☑
Thermal monitoring	☑	☑
Remote and nearby control	N/A	☑
24/7 monitoring by Schneider Electric experts	Available with EcoCare	Available with EcoCare
Circuit Breaker Alignment & position	Optional	☑
Circuit Breaker Auxiliary monitoring	Optional	☑
Circuit Breaker Health condition	N/A	☑

Explore EcoCare services membership

Unlock all the benefits of Evo**PacT** HVX with the right service plan.

With EcoCare membership, our next generation service plan, we offer the depth of our **expertise combined with innovative digital capabilities and condition-based maintenance across the equipment lifecycle.**

EcoCare members unlock the full **potential of their connected products**, so that our experts can proactively monitor 24/7, support, maintain, fix, advise and empower your team.

- Reduce maintenance activities and planned downtime costs by performing dynamic maintenance
- Faster response times and exclusive access to best-in-class experts and support, remotely and on-site 24/7
- Reduce electrical failure risk and unplanned downtime by up to 75% by combining environmental and thermal monitoring
- Detect and anticipate potential issues and schedule maintenance when needed with condition-based remote monitoring and analytics
- Extend your asset lifespan and help to prevent carbon emissions
- Get maintenance recommendations and insights to optimize your operations while making it more resilient and sustainable

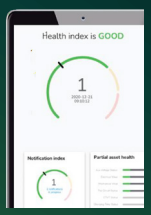
Find out more

EcoCare's exclusive indexes

The data from Evo**PacT**'s sensors enables our Connected Services Hub Team to perform remote monitoring and generate alarms for EcoCare member's assets.

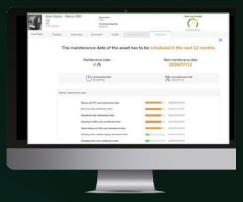
Powered by advanced analytics, we help you improve the performance of your circuit breaker, by leveraging data from four proprietary AI indexes by:

1
Health index



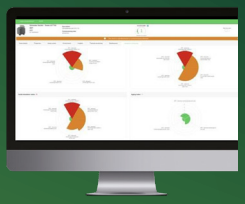
Monitoring the health of your electrical asset

2
Maintenance index



Helping prioritize on-site activities through our Maintenance Index

3
Electrical fire index



Detecting thermal anomalies, helping to protect against electrical fires with our Electrical Fire Index

Overview

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Comprehensive monitoring & control 28

Overview

Evo**PacT** HVX Field of Applications

Evo**PacT** HVX is a range of Vacuum Circuit Breakers (VCB), addressing networks up to 36 kV, with up to 40 kA short-circuit capacities and ranging from 630 A to 4000 A.

It is designed for use in Medium Voltage (MV) switchgear to connect primary power distribution consumers to the power grid, helping protect people and equipment in:

PM110789



Infrastructure

Industrial buildings

- Manufacturing facilities
- Large warehouses

PM110790



Commercial buildings

- Shopping malls
- Large office buildings
- High rise condominiums

Renewable energy

- Solar farms
- Wind turbine farms

PM110791



Transportation

- Airports
- Railways

PM110792



Critical Sites

- Data Centers (Co-location and Cloud)
- Hyperscale data centers for Artificial Intelligence
- Hospitals

PM110793



Electro Intensive Applications

- Mining, Minerals, and Metals (MMM)
- Oil and Gas (O&G)
- Water and waste water

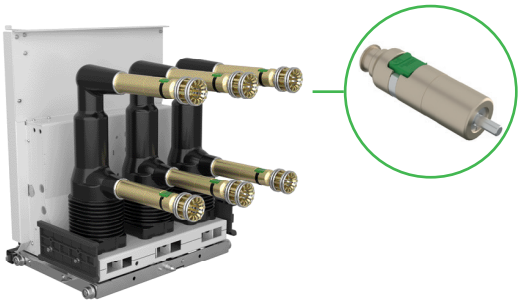
Overview

The Most Intelligent Circuit Breaker

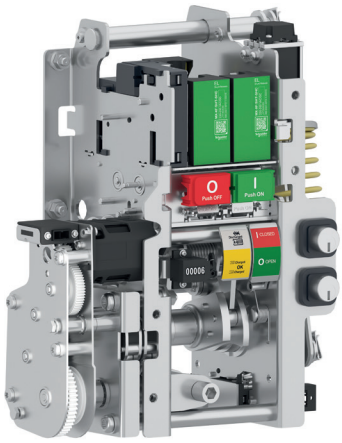
EvoPacT HVX Active and EvoPacT HVX Active Plus

PM110097

PM110590



PM110076



Future-ready by Default

Digitization provides an opportunity to take real benefits of data, cloud and analytics with power system equipment. Schneider Electric offers extensive digital benefits and future ready configurations by default in the standard product.

- EvoPacT HVX is designed with embedded IoT sensors that monitor all critical components and connections needed to assess the complete circuit breaker health.
- Essential data can be easily shared via on-premises or on-cloud architectures, connected to various applications to help users benefit from data.
- Local or remote connectivity allows users to monitor or control power system equipment from a safer distance, without even visiting the substation.
- 24/7 data helps maintenance teams greatly improve efficiency and reliability. Respond to problems faster, and be better prepared for site visits.

Although connected by default, the IoT data enables optional EcoStruxure digital solutions and services such as EcoCare membership / EcoStruxure Service Plans(2).

Find more information Here

Through digital functionalities, EvoPacT HVX brings new opportunities and visibility based on data. We provide 3 scalable tiers of connected features that are easily upgraded to meet your evolving needs.

EvoPacT HVX Active

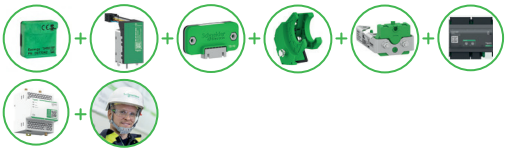
React faster to help prevent unplanned downtime with a 24/7 connected circuit breaker.
Essential condition monitoring provides scalable features and smart alerts.



Essential condition monitoring:
Thermal + Auxiliary circuit + Breaker alignment + Operating mechanism + VI
Optional: EcoCare membership(2)

EvoPacT HVX Active Plus

Comprehensive monitoring and control enables a fully connected circuit breaker with health diagnosis and alerts from anywhere, as well as operation and racking through your local HMI or connected device.



Comprehensive monitoring and control:
Thermal + Auxiliary circuit + Breaker alignment + Operating mechanism + VI
CB Motorized truck & Earthing switch control
Optional: EcoCare membership(2)



Digital Logbook



Edge and cloud connectivity (1)

Optional

(1) Edge and cloud connectivity comprise the optional software offers:
- EcoStruxure Power Monitoring Expert
- EcoStruxure Power SCADA
(2) Contact your local Schneider Electric representative to verify the availability of EcoCare / EcoStruxure Service Plan in your region.

The Most Intelligent Circuit Breaker

EvoPacT HVX Active and EvoPacT HVX Active Plus

Selection list		Active			Active Plus(1)
		A1	A2	A3	AP
		On-demand thermal monitoring	Continuous thermal monitoring	Thermal and essential circuit breaker monitoring	Thermal and comprehensive circuit breaker monitoring
Condition monitoring					
Thermal	CB power connection arms thermal monitoring	✓	✓	✓	✓
	Ambient temperature and relative humidity monitoring	○	○	○	○
	Busbar and cables connections thermal monitoring	○	○	○	○
	Temperature rise alarm according to temperature and current measuring	–	○	○	○
Auxiliary circuit	Shunt release condition monitoring	–	–	✓	✓
	Spring charging motor condition monitoring	–	–	✓	✓
	Closing/Opening shunt releases current curve	–	–	✓	✓
Circuit breaker alignment	Circuit breaker power connection arms alignment monitoring	–	–	✓	✓
Operating mechanism	Circuit breaker Closing/Opening time	–	–	–	✓
	Circuit breaker bouncing time on closing(1)	–	–	–	✓
	Circuit breaker rebounding distance on opening	–	–	–	✓
	Circuit breaker closing/opening speed	–	–	–	✓
	Vacuum Interrupter contacts travel curve	–	–	–	✓
	Vacuum Interrupter contacts gap monitoring	–	–	–	✓
Vacuum Interrupter	Vacuum Interrupter contacts condition monitoring	–	–	–	✓
	Poles closing/opening synchronization(1)	–	–	–	✓
	Contact spring travel monitoring	–	–	–	✓
	Vacuum Interrupter contacts pressure monitoring	–	–	–	✓
Monitoring and control					
CB motorized functions	Motorized CB truck and earthing switch control and protection	–	–	–	✓
	Motorized CB Truck and earthing switch motors condition monitoring	–	–	–	✓
Other					
Digital Logbook	Stay connected with all project documentation and records	✓	✓	✓	✓
EcoCare membership(2)	Data-driven maintenance and support plan	–	○	○	○

✓ As standard ○ Optional

(1) Contact Schneider Electric for availability.
(2) Contact your local Schneider Electric representative to verify the availability of EcoCare / EcoStruxure Service Plan in your region.

EvoPacT HVX Connectivity Active Architectures with PowerLogic P5

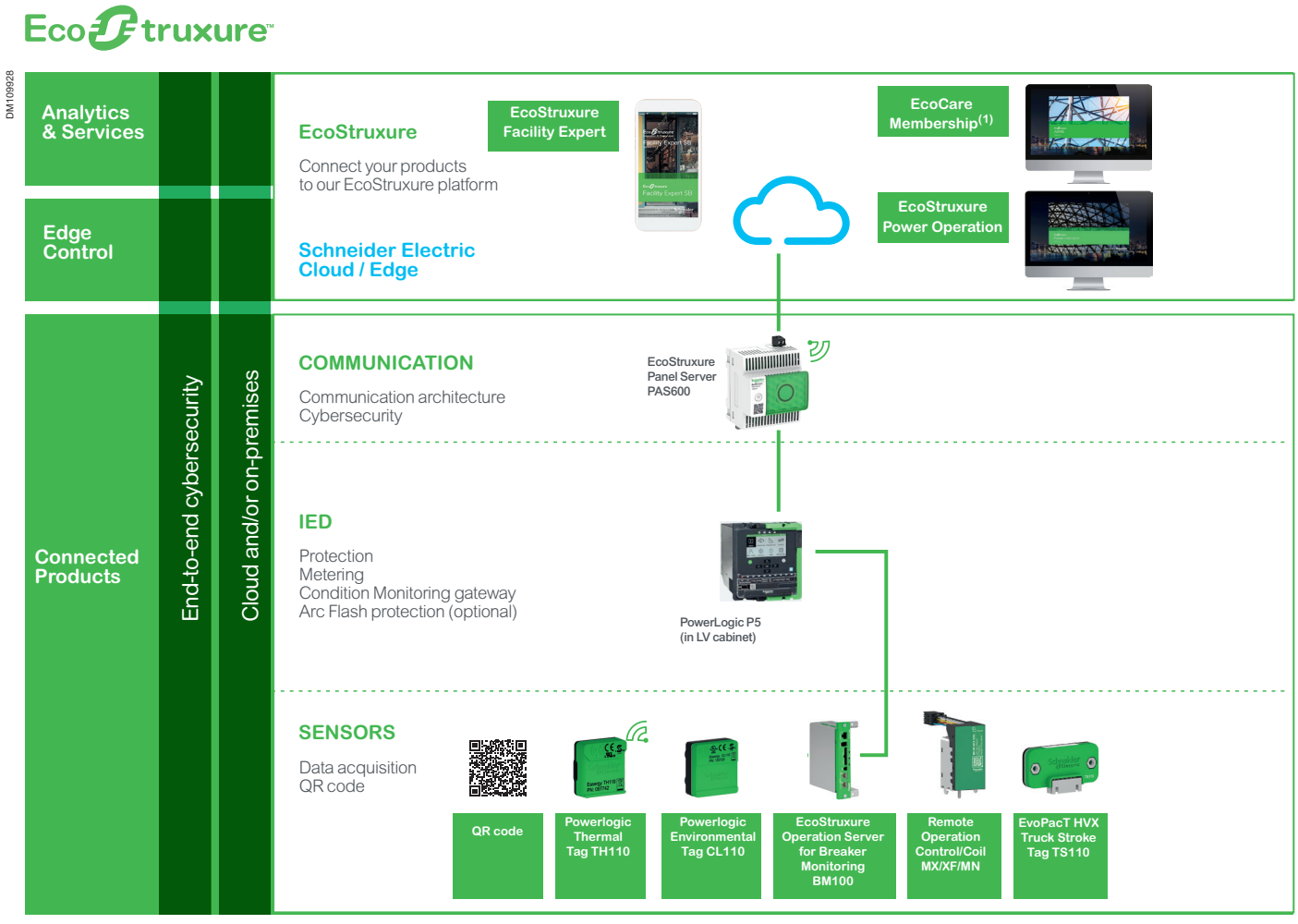
Digitally native with essential monitoring

- **24/7 connectivity**
  Real-time remote data for effective decision making, anywhere, and anytime.
- **Efficient asset management**
  Increase uptime while also reducing maintenance costs and risks.

Active features

The Active tier features Evo**PacT** HVX with various levels of circuit breaker health monitoring which can be accessible at the switchgear, Edge or Cloud levels, connected 24/7. It provides:

- Thermal monitoring
- Environmental monitoring
- Circuit breaker monitoring
- QR Code access to a Digital Logbook and product information via Asset Lifecycle Management
- Optional services:
- Connectivity gateway to SE Cloud
- EcoCare Membership(1)



(1) Contact your local Schneider Electric representative to verify the availability of EcoCare / EcoStruxure Service Plan in your region.

EvoPacT HVX Connectivity Active Architectures with PAS600

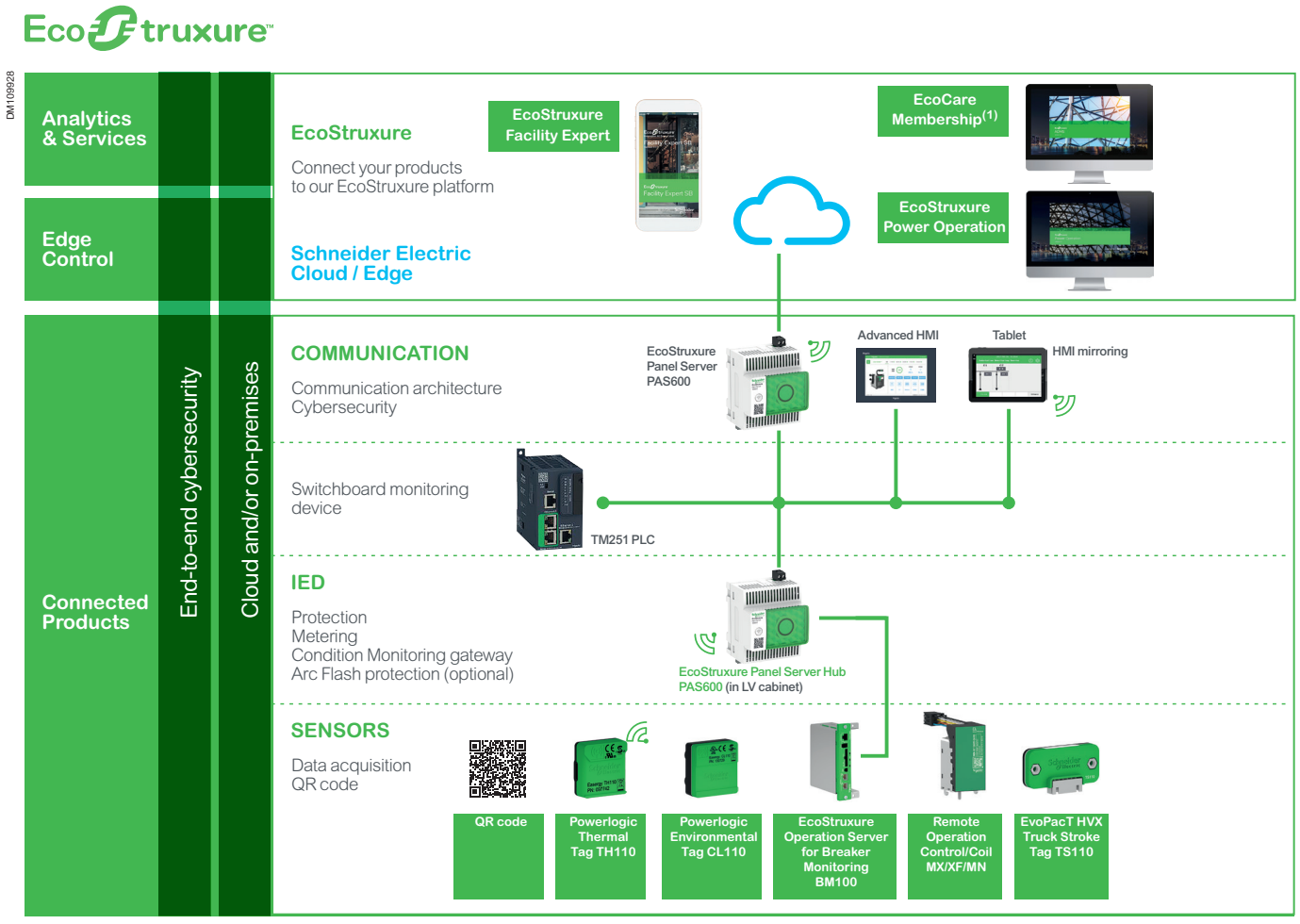
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- Optional services:
- Connectivity gateway to SE Cloud
- EcoCare Membership(1)



(1) Contact your local Schneider Electric representative to verify the availability of EcoCare / EcoStruxure Service Plan in your region.

Overview

EvoPacT HVX Connectivity Active Plus Architectures with PowerLogic P5

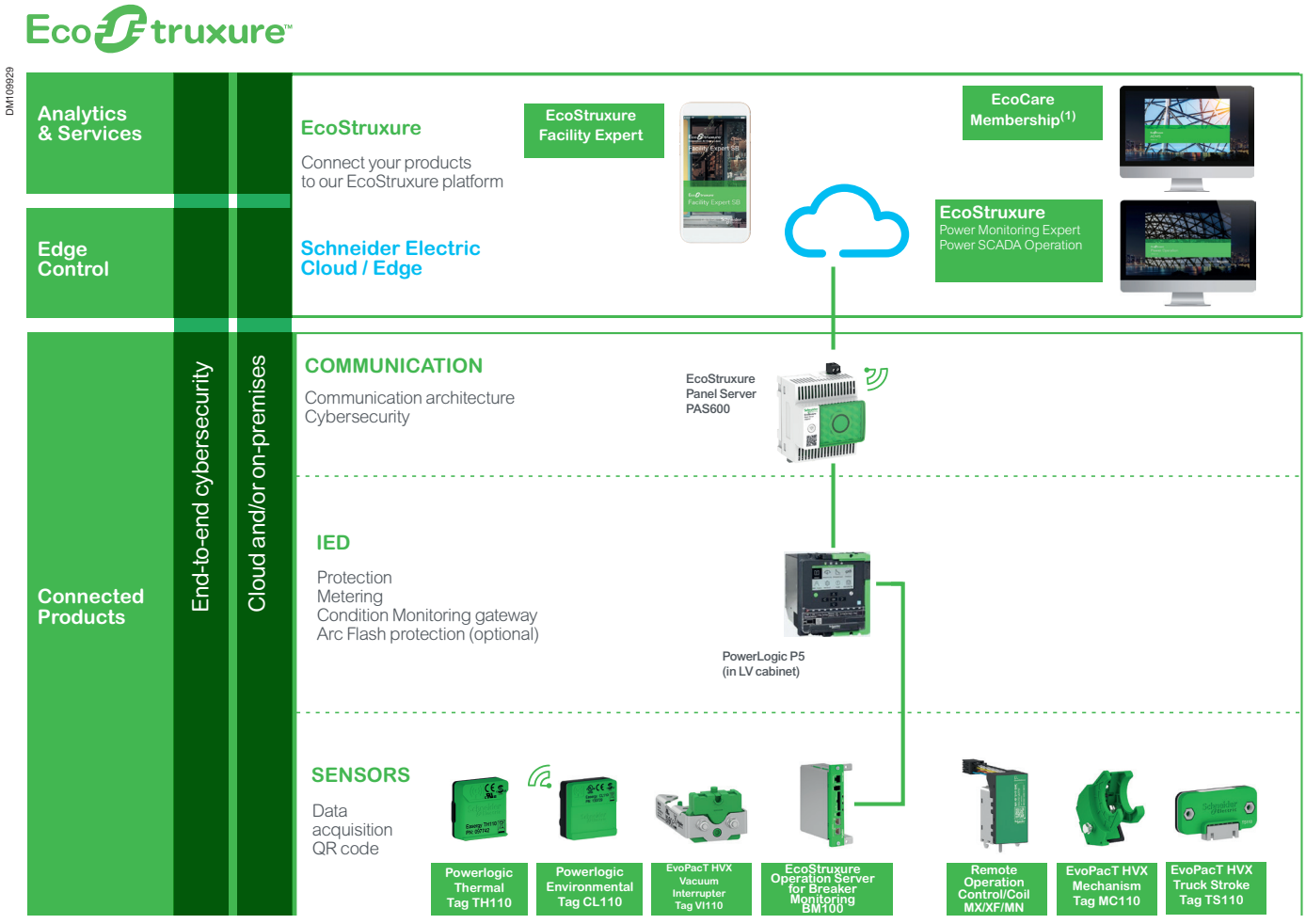
Comprehensive monitoring & control

- **Helping enhance safety**
  For both operator and equipment by featuring nearby operations.
- **24/7 connectivity**
  Real-time remote data for effective decision making, anywhere, anytime.
- **Efficient asset management**
  Increase uptime while also reducing maintenance costs and risks.
- **Open Intelligence Edge Layer**
  Decision and Control capabilities from Edge layer for all devices.

Active Plus features

In addition to Active, the Active Plus tier features control capabilities that enable nearby operation and also guide users to enhance efficiency and safety.

- Nearby operations
- Thermal monitoring
- Circuit breaker monitoring
- Connectivity gateway to SE Cloud
- QR Code access to a Digital Logbook and product information via Asset Lifecycle Management
- Optional services:
  EcoCare Membership(1)
  Local edge monitoring & control:
  EcoStruxure Power Monitoring Expert
  EcoStruxure Power Operation



(1) Contact your local Schneider Electric representative to verify the availability of EcoCare / EcoStruxure Service Plan in your region.

Overview

EvoPacT HVX Connectivity Active Plus Architectures with PAS600

Comprehensive monitoring & control

- **Helping enhance safety**
  For both operator and equipment by featuring nearby operations.
- **24/7 connectivity**
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- **Open Intelligence Edge Layer**
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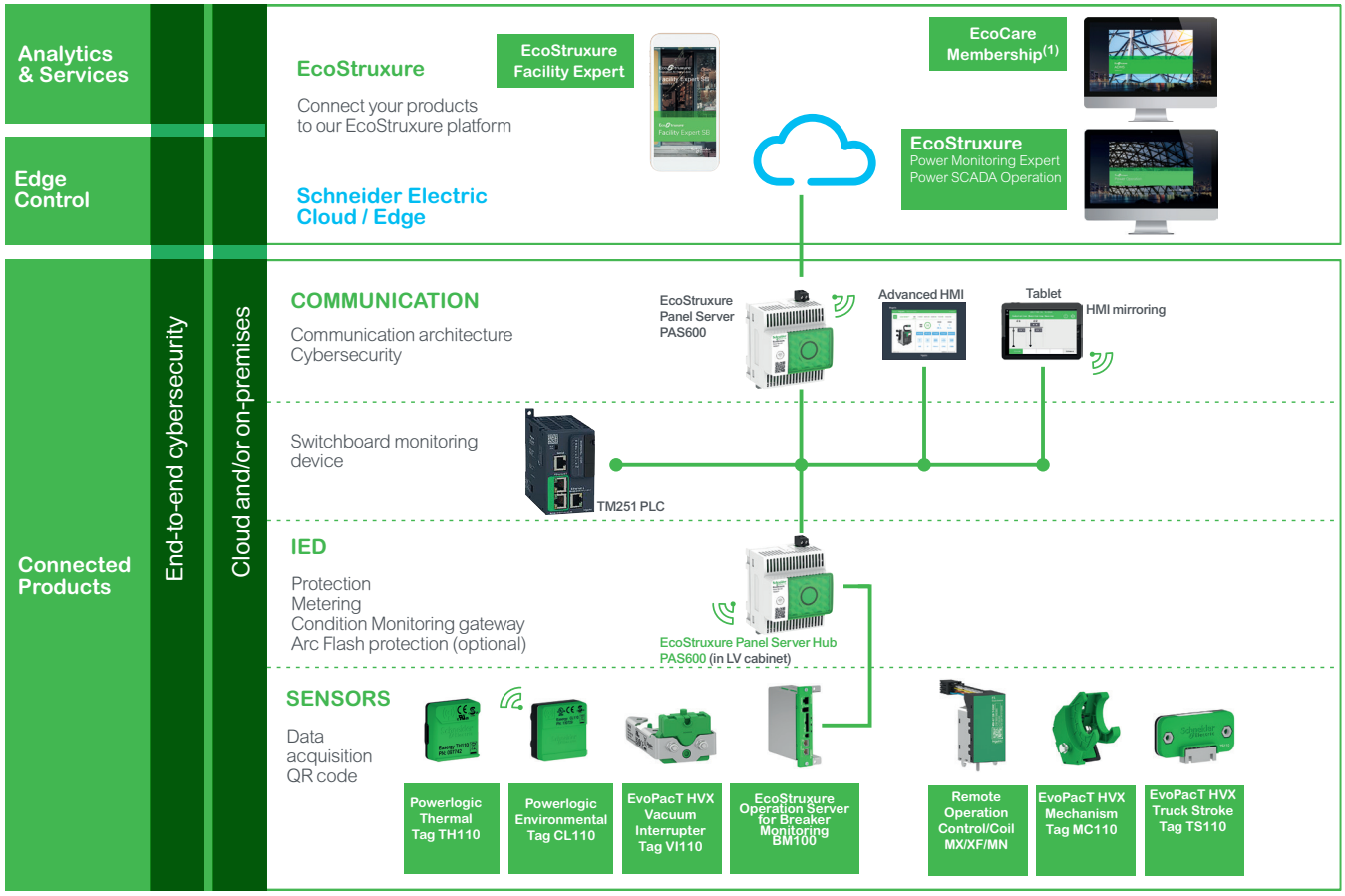
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- Connectivity gateway to SE Cloud
- QR Code access to a Digital Logbook and product information via Asset Lifecycle Management
- Optional services:
  EcoCare Membership(1)
  Local edge monitoring & control:
  EcoStruxure Power Monitoring Expert
  EcoStruxure Power Operation

EcoStruxure

DM109929



(1) Contact your local Schneider Electric representative to verify the availability of EcoCare / EcoStruxure Service Plan in your region.

Notes

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Range Description

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General Characteristics

According to IEC 62271-100:2021
Main Electrical Characteristics:

Common characteristics																												
Rated voltage	Ur	kV	12								17.5								24				36					
Rated frequency	fr	Hz	50/60																									
Rated short-duration power frequency withstand voltage (1 min)	Ud	kV	28								38								50				70					
Rated lightning impulse withstand voltage	Up	kV	75								95								125				170					
Rated operating sequence			O-3 min-CO-3 min-CO / O - 0.3 s - CO - 15 s - CO (fastest one)																									
Phase Distance (PD)		mm	150		210			275			150		210			275			210		275		254					
Rated short-circuit breaking current	Isc	kA	25	31.5	25	31.5	40	25	31.5	40	25	31.5	25	31.5	40	25	31.5	40	25	31.5	25	31.5	25	26.3	31.5			
Rated continuous current	Ir	630 A	•	•	•	•					•	•	•	•					•	•	•	•	•	•	•			
		800 A																					•	•	•			
		1250 A	•	•	•	•	•			•	•	•	•	•	•			•	•	•	•	•	•	•	•			
		1600 A			•	•	•	•	•	•			•	•	•	•	•	•			•	•						
		2000 A			•	•	•	•	•	•			•	•	•	•	•	•			•	•	•	•	•			
		2500 A						•	•	•						•	•	•			•	•	•	•	•			
		3150 A						•	•	•						•	•	•			•	•						
		4000 A						•	•	•						•	•	•										
Rated short-time withstand current	Ik	kA	25	31.5	25	31.5	40	25	31.5	40	25	31.5	25	31.5	40	25	31.5	40	25	31.5	25	31.5	25	26.3	31.5			
Rated duration of short-circuit	tk	s	3																									
Rated peak withstand current	Ip	kA	65	82	65	82	104	65	82	104	65	82	65	82	104	65	82	104	65	82	65	82	65	68	82			
DC component of the short-circuit breaking current			52%																				>45%					
DC time constant	t	ms	45																									
Opening time		ms	22...40																									
Closing time		ms	36...60																									
Rated cable charging breaking current	Ic	A	25								31.5								31.5				50					
Rated line charging breaking current	Il	A	10																									
Rated back-to-back capacitor bank breaking current	Ibb	A	400																									
Rated back-to-back capacitor bank inrush making current (inrushfrequency)	Ibi	kA	20 (4250 Hz)																									
Mechanical endurance		operations	50000 (≤1250 A and ≤31.5 kA) 30000 (≥1600 A and 1250 A 40 kA)								50000 (≤1250 A and ≤31.5 kA) 30000 (≥1600 A and 1250 A 40 kA)								30000				20000					
Electrical endurance — Rated continuous current breaking times		operations	50000 (≤1250 A and ≤31.5 kA) 30000 (≥1600 A and 1250 A 40 kA)								50000 (≤1250 A and ≤31.5 kA) 30000 (≥1600 A and 1250 A 40 kA)								30000				20000					
Electrical endurance — Full capacity rated short-circuit break current breaking times		operations	100								100								50				50					
Circuit breaker classification			C2–E2–M2-S1																									

Operating Conditions

According to IEC 62271-1:2021 Normal Service Conditions:

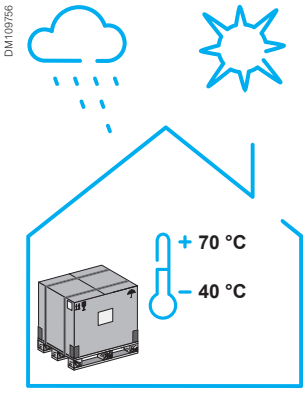
Operating conditions		
Ambient air temperature	Minimum value	-25 °C
	Maximum value(1)	+40 °C
Altitude (maximum without derating)	Stand alone circuit breaker	1,000 m
Environment	No dust, smoke, salt corrosive or flammable gas or vapor	
Humidity	Average relative humidity over 1 month	≤ 90%

(1) *Maximum value is +50 °C for 36 kV.*

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 storing 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 to 12 months: Perform basic preventive maintenance to help ensure correct device operation.
- Beyond 12 months: Contact your local Schneider Electric representative for device check-up.

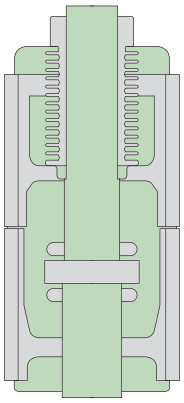
Vacuum Interrupters

PM1100058



New Schneider Electric Vacuum Interrupter Bottles

DM107955



Vacuum Interrupters Inside Principle

DM107956



Specific Contacts Shapes Inside Vacuum interrupters

The Heart of the Circuit Breaker

Vacuum Interrupters (VI) are the heart of a medium voltage circuit breaker. Its electrical performance highly depends on the vacuum interrupter characteristics and quality. VI shall convey and break the rated normal current as well as the rated short-circuit current for the number of times specified by the manufacturer.

Brand New Design

Schneider Electric has been designing and producing its own Vacuum Interrupters (VI) for 45 years and carries a unique know-how in this field.

Using a development process called Model-Based Systems Engineering (MBSE), we created a brand new range of VIs. The process allowed innovative solutions to be implemented that improve the durability and lifespan of the VI including shape, contact shape, radial magnetic field petal shape and specific barriers to help protect the ceramic components used in the VI body.

Designed to Serve High Performance and Energy Continuity

The result is a range of VIs with high electrical performance, long life expectancy and high endurance in a compact volume.

Addressing needs of up to 4000 A nominal current and 40 kA short-circuit breaking, the endurance is exceptional: up to 50,000 (nominal current) and up to 100 short-circuit breaking operations.

The capacitive switching is also enhanced with C2 class for back to back capacitor installation.

The compact volume of the new VI allows an increased insulation distance within the circuit breaker, enhancing safety and smooth operation.

Strict Quality Controls

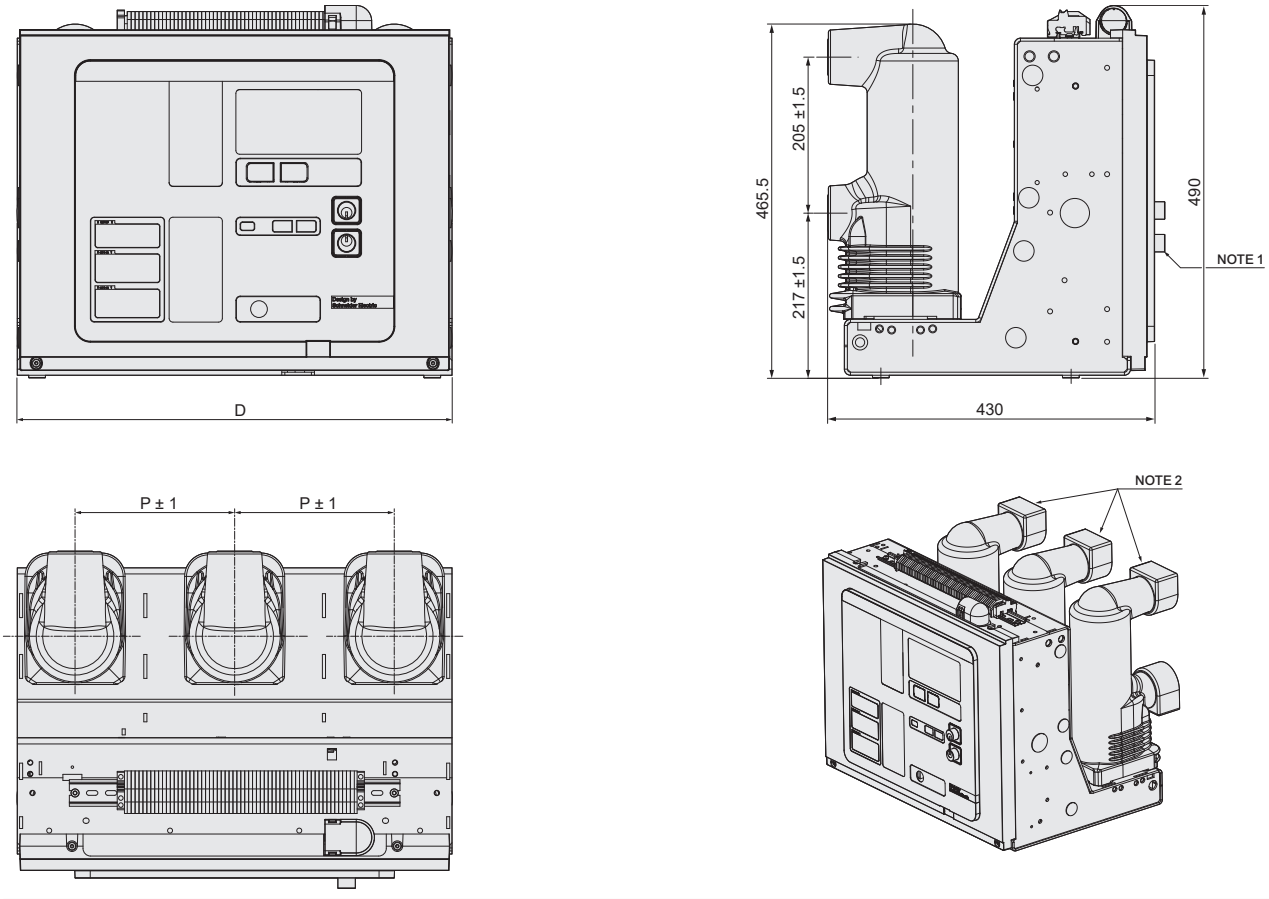
The manufacturing process uses best-in-class processes designed to achieve a total vacuum inside the VI bottle. The process uses techniques such as high temperature brazing and "getter materials" to absorb residual gas within a high quality sealed enclosure.

The "anti-twist" feature allows easy mounting of the VI inside the pole of the circuit breaker to help ensure high performance of the VI.
The new range of VI exceeds requirements of all the main circuit breaker standards such as GB/T 1984-2014, DL/T 402-2016, IEC62271-100, IEEE C37.04-1999 and C37.06-2009.

Fixed Circuit Breaker Dimensions 12 kV and 17.5 kV

12/17.5 kV, 630/1250 A, 25/31.5 kA

DM111238



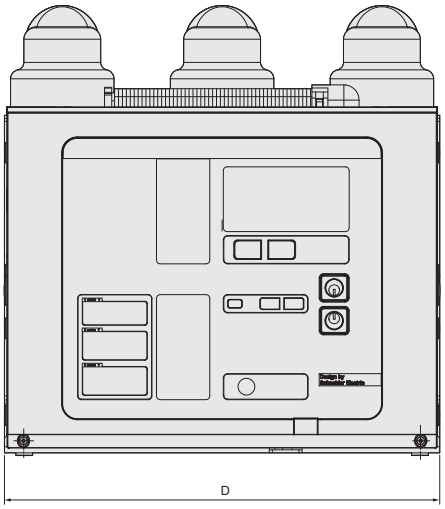
Note 1: Keylock is optional.
Note 2: Insulation cover required for VCBs with P = 150 mm only. The 6 insulation covers are to be installed by the customer.
Note 3: Refer to the outline drawing NNZ3758002 for complete dimensions.
Note 4: All dimensions are in millimeters.

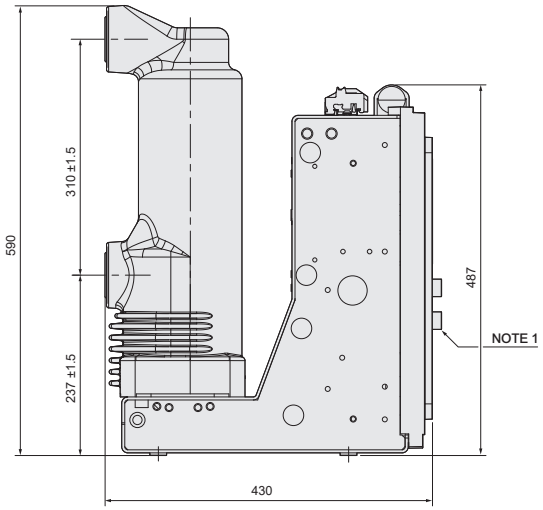
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	D (mm)
630/1250	25/31.5	150	450
		210	572

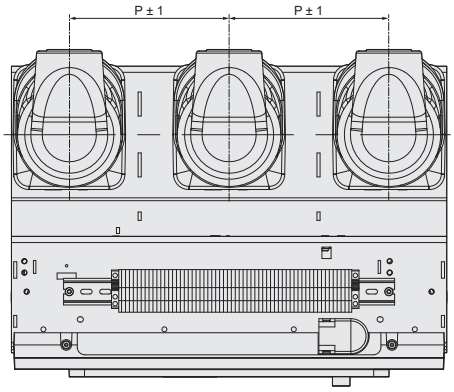
Fixed Circuit Breaker Dimensions 12 kV and 17.5 kV

12/17.5 kV, 1250 A, 40 kA

DM111237







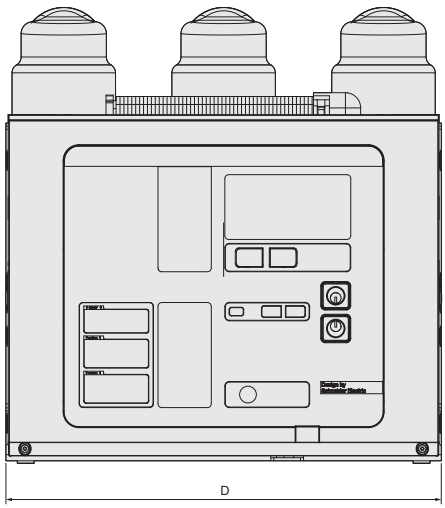
Note 1: Keylock is optional.
Note 2: Refer to the outline drawing NNZ3757602 for complete dimensions.
Note 3: All dimensions are in millimeters.

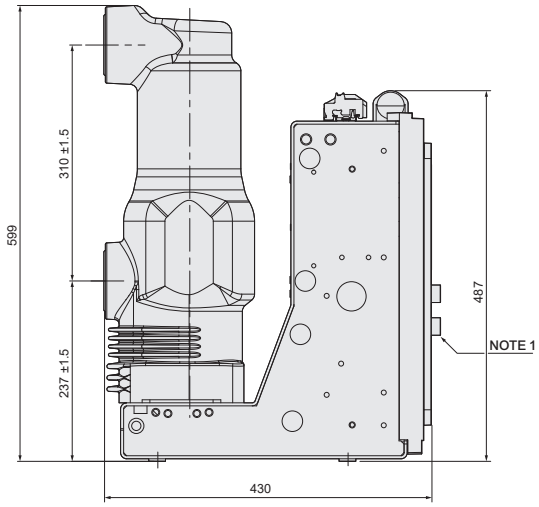
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	D (mm)
1250	40	210	572
		275	700

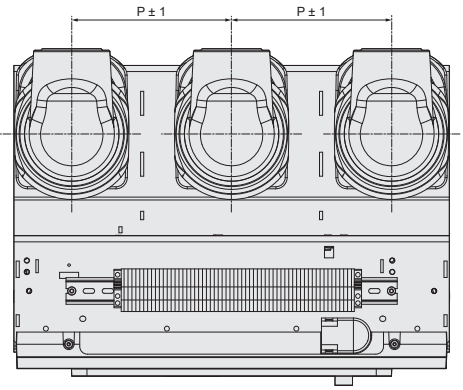
Fixed Circuit Breaker Dimensions 12 kV and 17.5 kV

12/17.5 kV, 1600/2000 A, 25/31.5/40 kA

DM111236







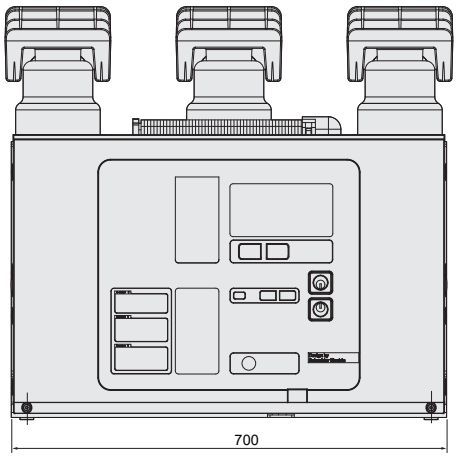
Note 1: Keylock is optional.
Note 2: Refer to the outline drawing NNZ3757402 for complete dimensions.
Note 3: All dimensions are in millimeters.

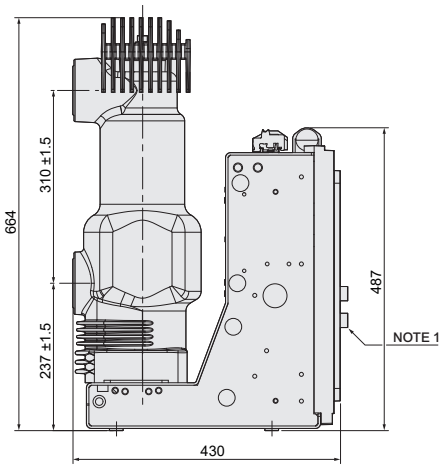
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	D (mm)
1600/2000	25/31.5/40	210	572
		275	700

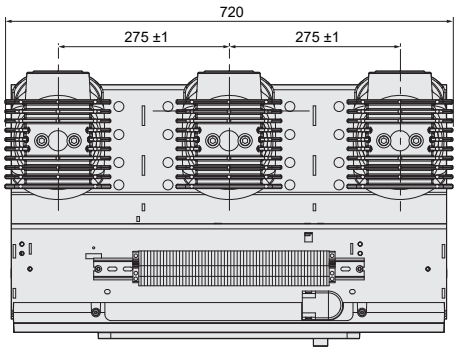
Fixed Circuit Breaker Dimensions 12 kV and 17.5 kV

12/17.5 kV, 2500/3150/4000 A, 25/31.5/40 kA

DM111235





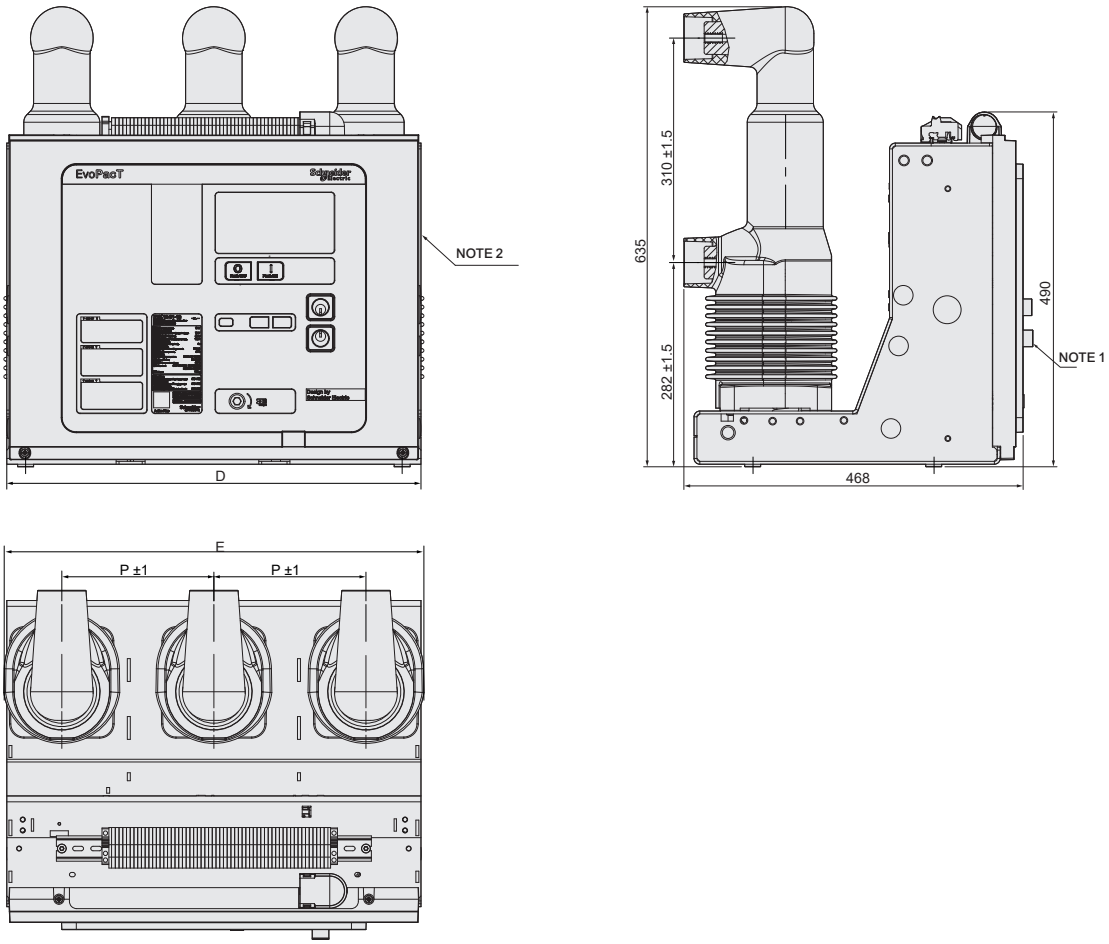


Note 1: Keylock is optional.
Note 2: Refer to the outline drawing NNZ3757502 for complete dimensions.
Note 3: All dimensions are in millimeters.

Fixed Circuit Breaker Dimensions 24 kV

24 kV, ≤ 1250 A, ≤ 31.5 kA

DM109981



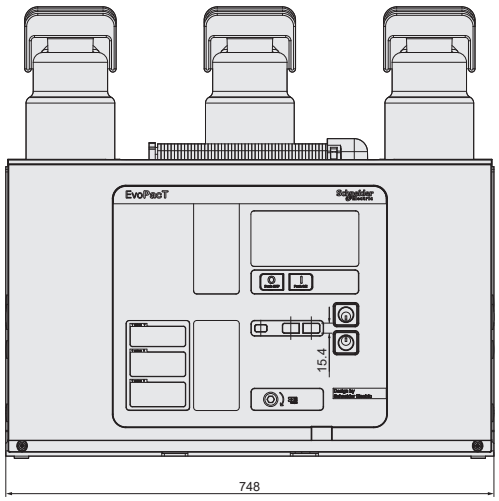
Note 1: Keylock is optional.
Note 2: Refer to the Outline drawing PKR2098102 for complete dimensions.
Note 3: All dimensions are in millimeters.

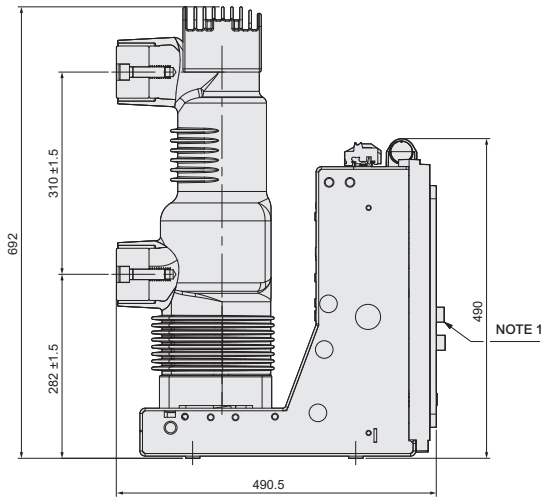
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	D (mm)	E (mm)
630/1250	25/31.5	210	572	580
		275	748	748

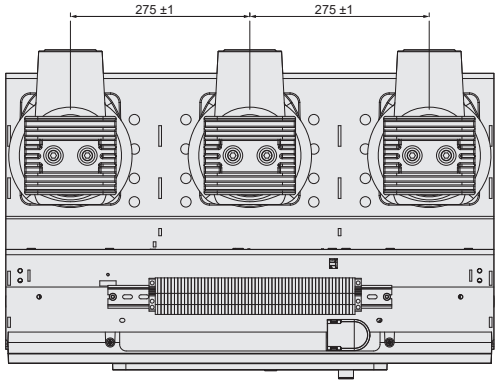
Fixed Circuit Breaker Dimensions 24 kV

24 kV, 1600 A … 3150 A, ≤ 31.5 kA

DM109985





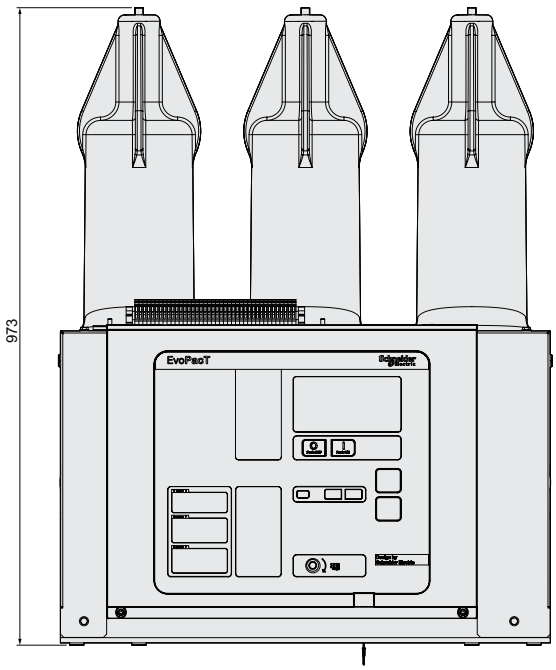


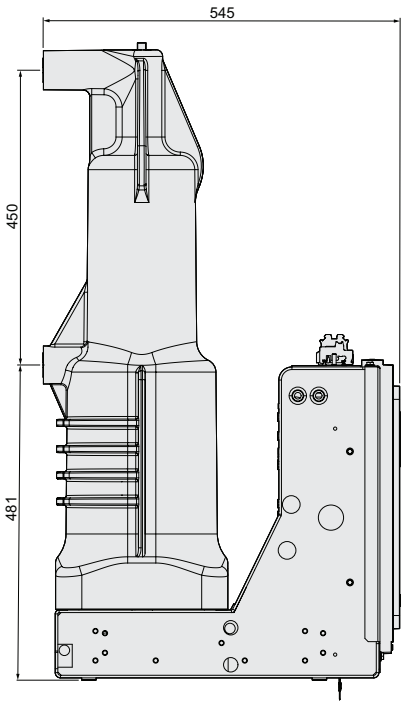
Note 1: Keylock is optional.
Note 2: Refer to the Outline drawing BRU1357602 for complete dimensions.
Note 3: All dimensions are in millimeters.

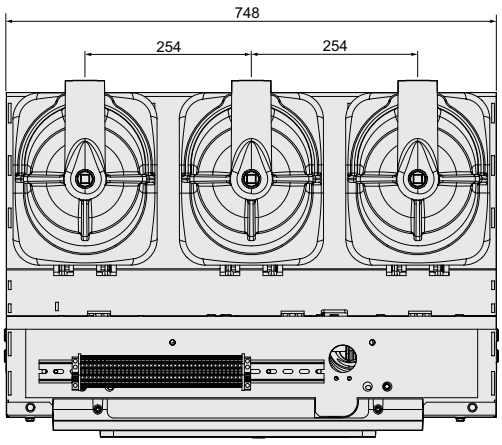
Fixed Circuit Breaker Dimensions 36 kV

36 kV, 630/800/1250 A, 25/26.3/31.5 kA

JPS50786





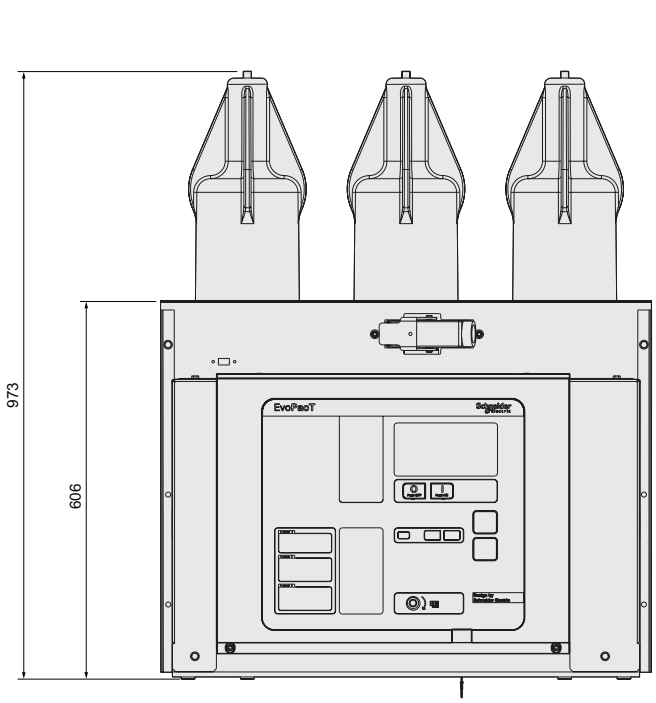


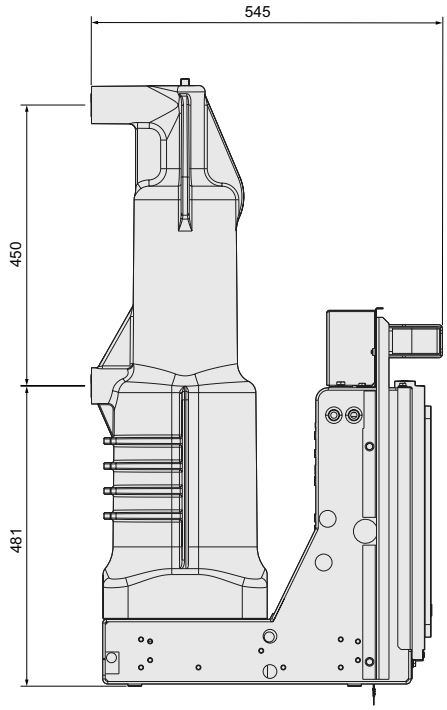
Note 1: Refer to the Outline drawing JPW038607 for complete dimensions.
Note 2: All dimensions are in millimeters.

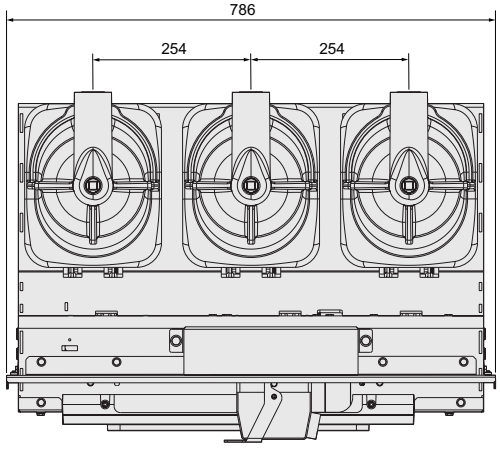
Fixed Circuit Breaker Dimensions 36 kV

36 kV, 630/800/1250 A, 25/26.3/31.5 kA

JPU03538





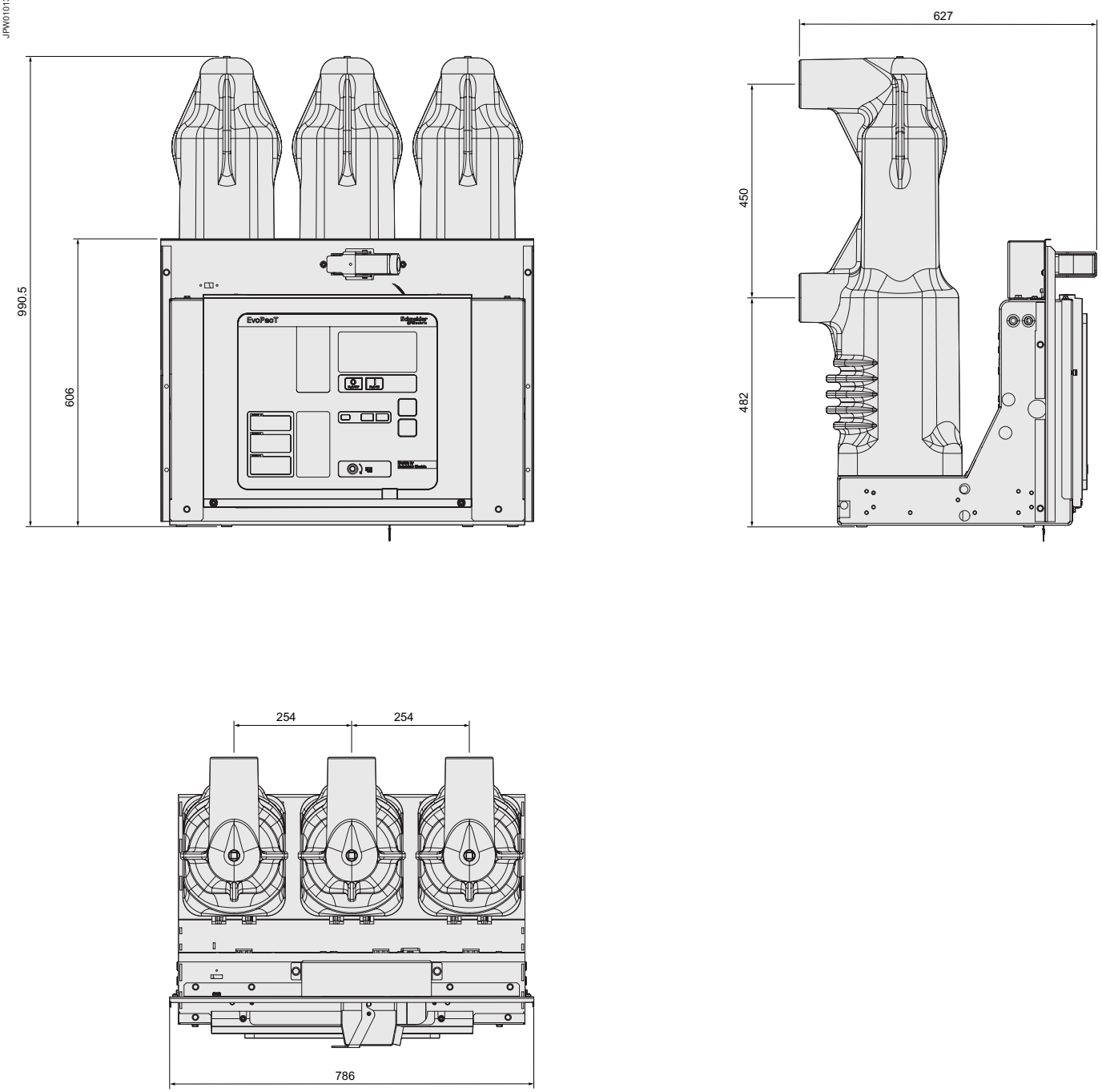


Note 1: Refer to the Outline drawing JPW038602 for complete dimensions.
Note 2: All dimensions are in millimeters.

Fixed Circuit Breaker Dimensions 36 kV

36 kV, 2000/2500 A, 25/26.3/31.5 kA

JPW010138

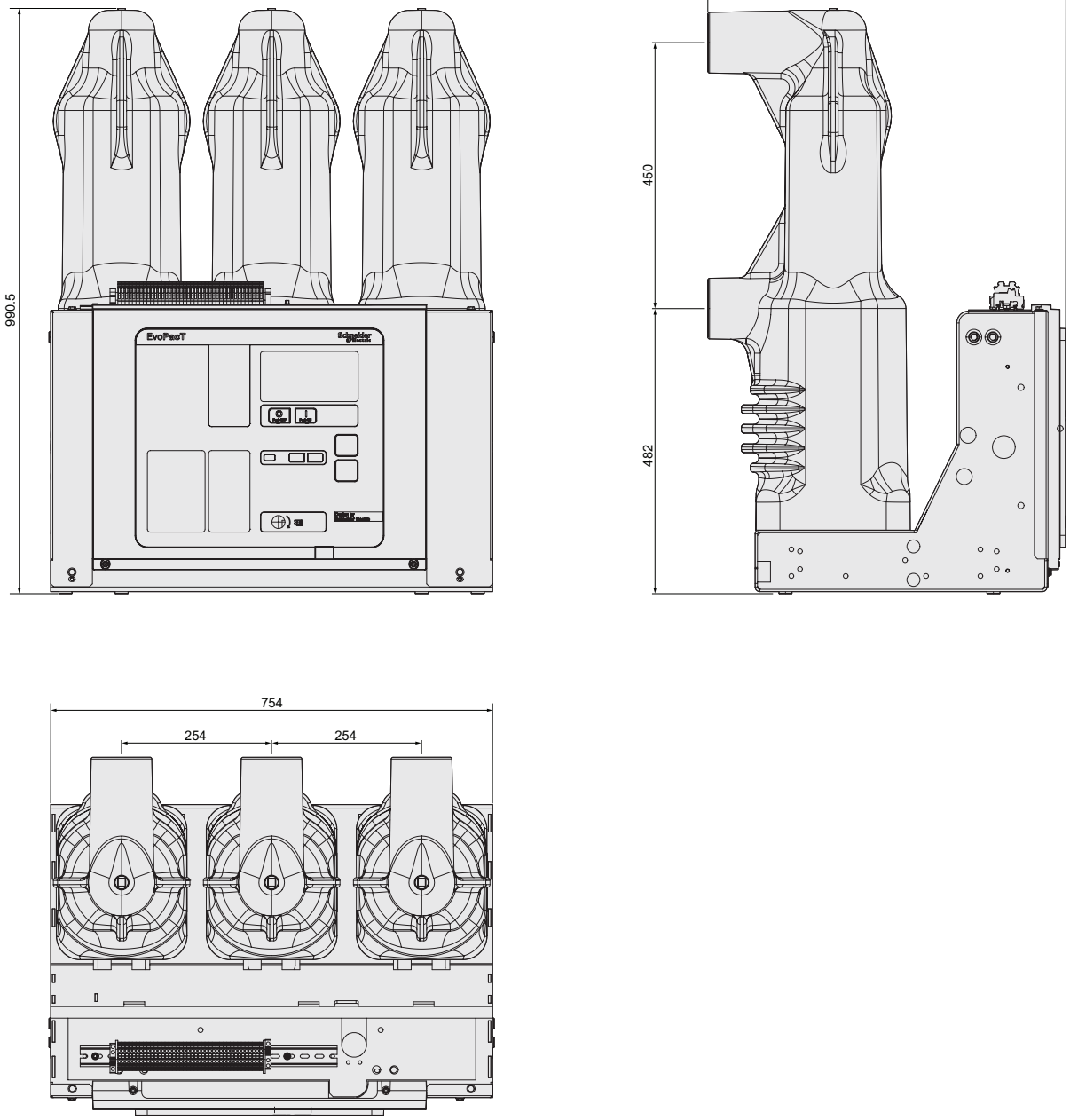


Note 1: Refer to the Outline drawing JPW038615 for complete dimensions.
Note 2: All dimensions are in millimeters.

Fixed Circuit Breaker Dimensions 36 kV

36 kV, 2000/2500 A, 25/26.3/31.5 kA

JPW010138

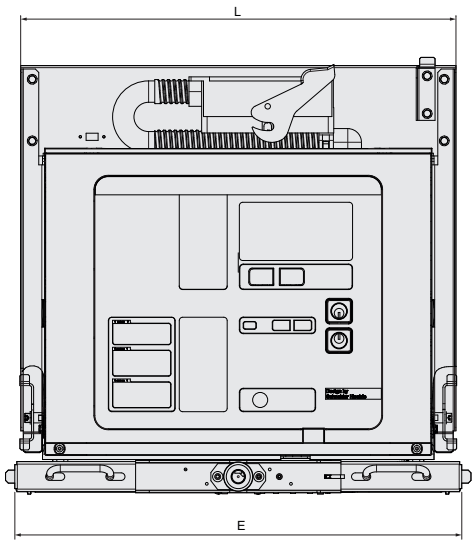


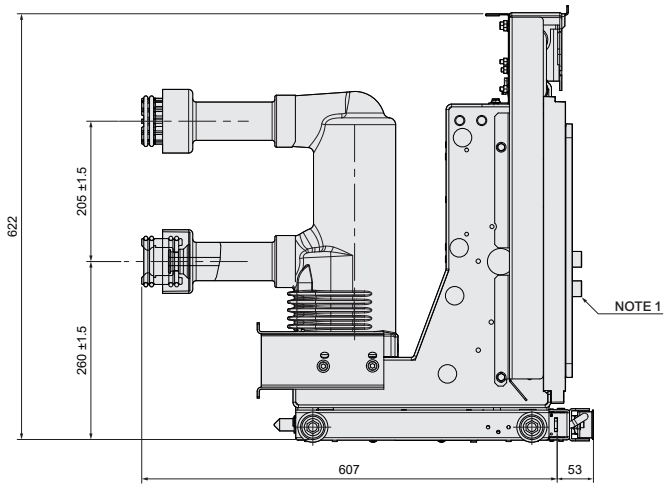
Note 1: Refer to the Outline drawing JPW038619 for complete dimensions.
Note 2: All dimensions are in millimeters.

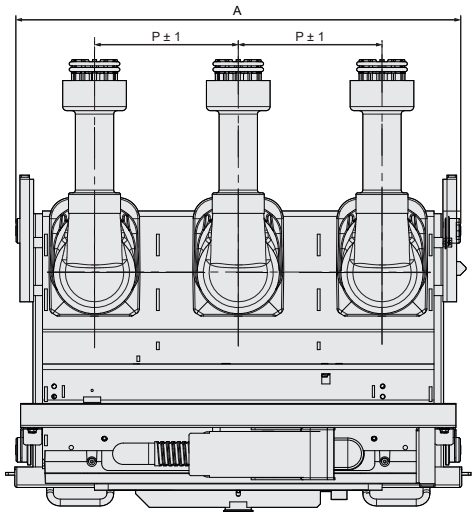
Withdrawable Circuit Breaker Dimensions 12 kV

12 kV, 630/1250 A, 25/31.5 kA

DM111234







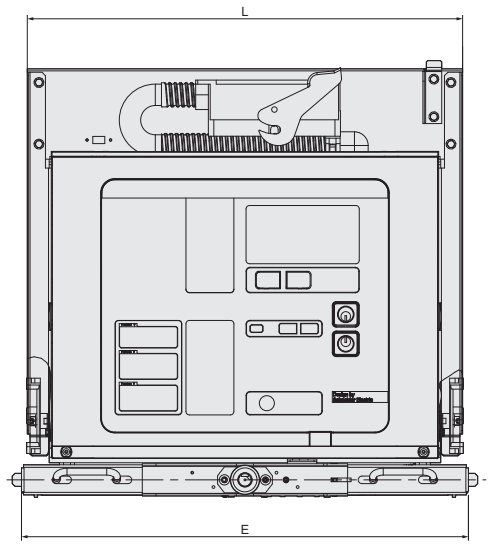
Note 1: Keylock and door interlock is optional.
Note 2: Refer to the outline drawing NAT1769802 for complete dimensions.
Note 3: All dimensions are in millimeters.

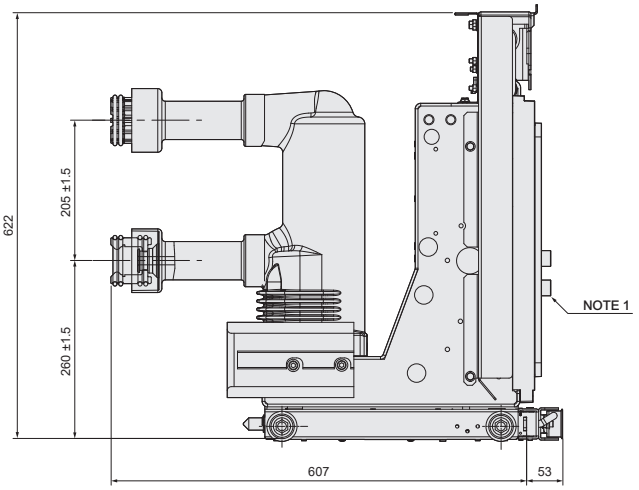
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	A (mm)	E (mm)	L (mm)
630/1250	25/31.5	150	500	503	492
		210	650	653	636

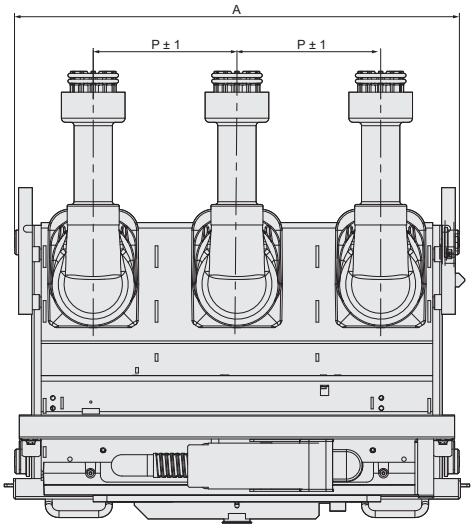
Withdrawable Circuit Breaker Dimensions 17.5 kV

17.5 kV, 630/1250 A, 25/31.5 kA

DM111233







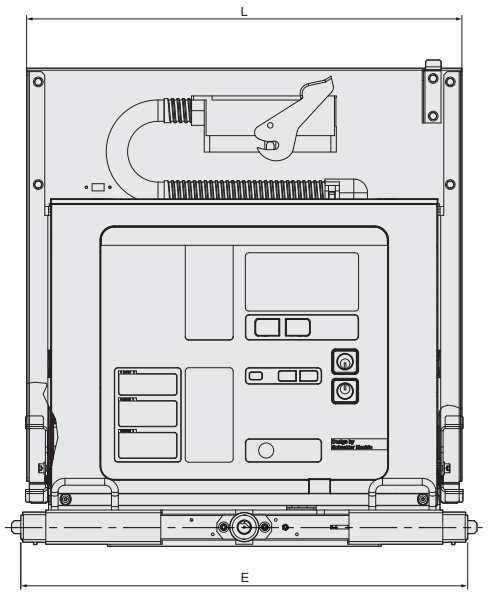
Note 1: Keylock and door interlock is optional.
Note 2: Refer to the outline drawing NAT1181502 for complete dimensions.
Note 3: All dimensions are in millimeters.

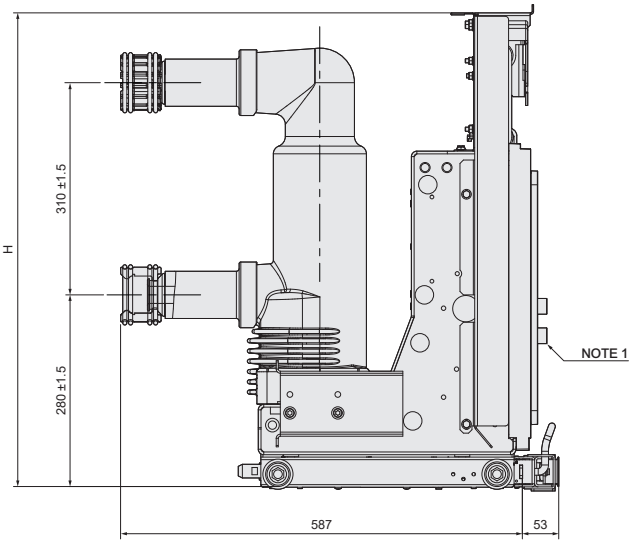
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	A (mm)	E (mm)	L (mm)
630/1250	25/31.5	150	500	503	492
		210	650	653	636

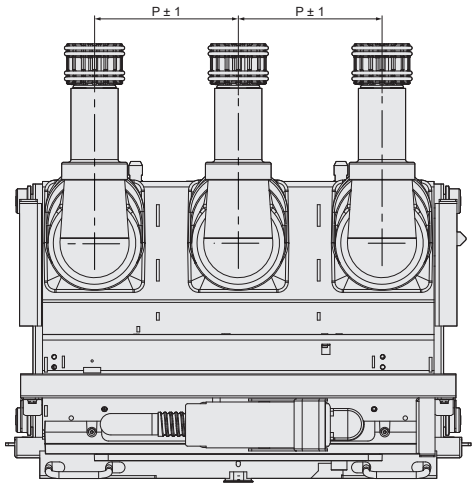
Withdrawable Circuit Breaker dimensions 12 kV and 17.5 kV

12/17.5 kV, 1250 A, 40 kA

DM111232







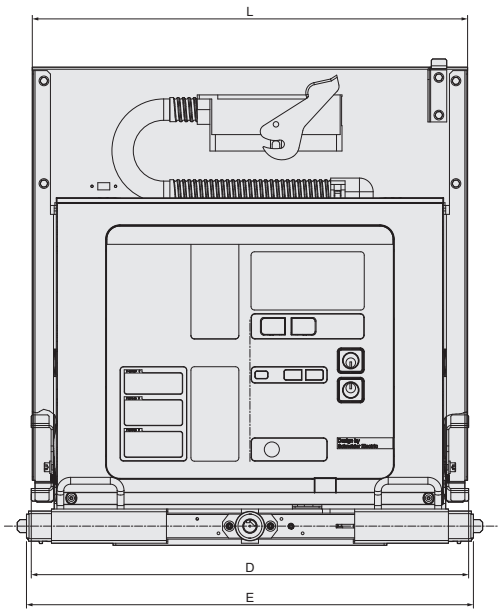
Note 1: Keylock and door interlock is optional.
Note 2: Refer to the outline drawing NAT1652002 for complete dimensions.
Note 3: All dimensions are in millimeters.

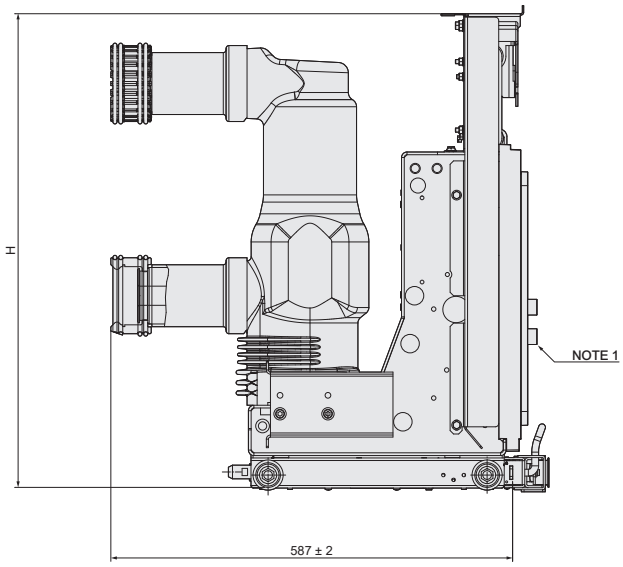
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	D (mm)	E (mm)	L (mm)	H (mm)
1250	40	210	650	653	636	692
		275	850	853	842	730

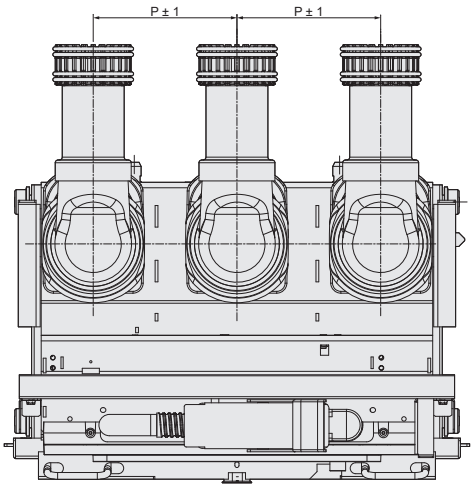
Withdrawable Circuit Breaker dimensions 12 kV and 17.5 kV

12/17.5 kV, 1600/2000 A, 25/31.5/40 kA

DM111231







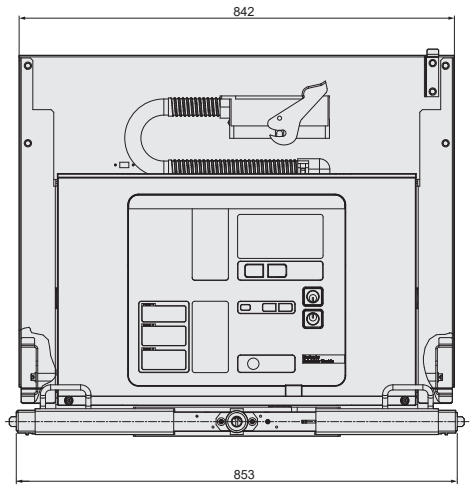
Note 1: Keylock and door interlock is optional.
Note 2: Refer to the outline drawing NAT1652102 for complete dimensions.
Note 3: All dimensions are in millimeters.

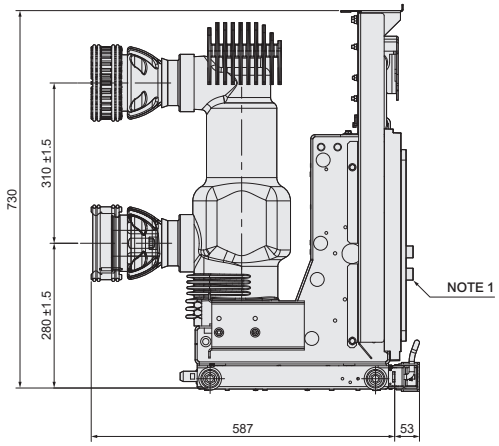
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	D (mm)	E (mm)	L (mm)	H (mm)
1600/2000	25/31.5/40	210	650	653	636	692
		275	850	853	842	730

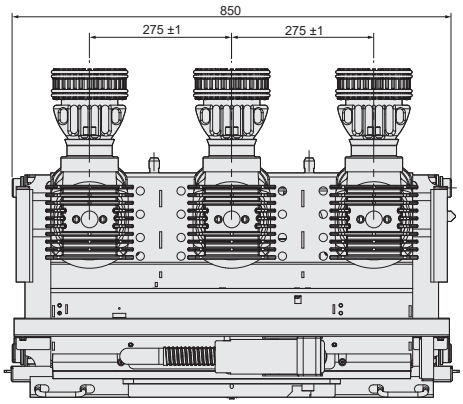
Withdrawable Circuit Breaker dimensions 12 kV and 17.5 kV

12/17.5 kV, 2500/3150/4000 A, 25/31.5/40 kA

DM111230





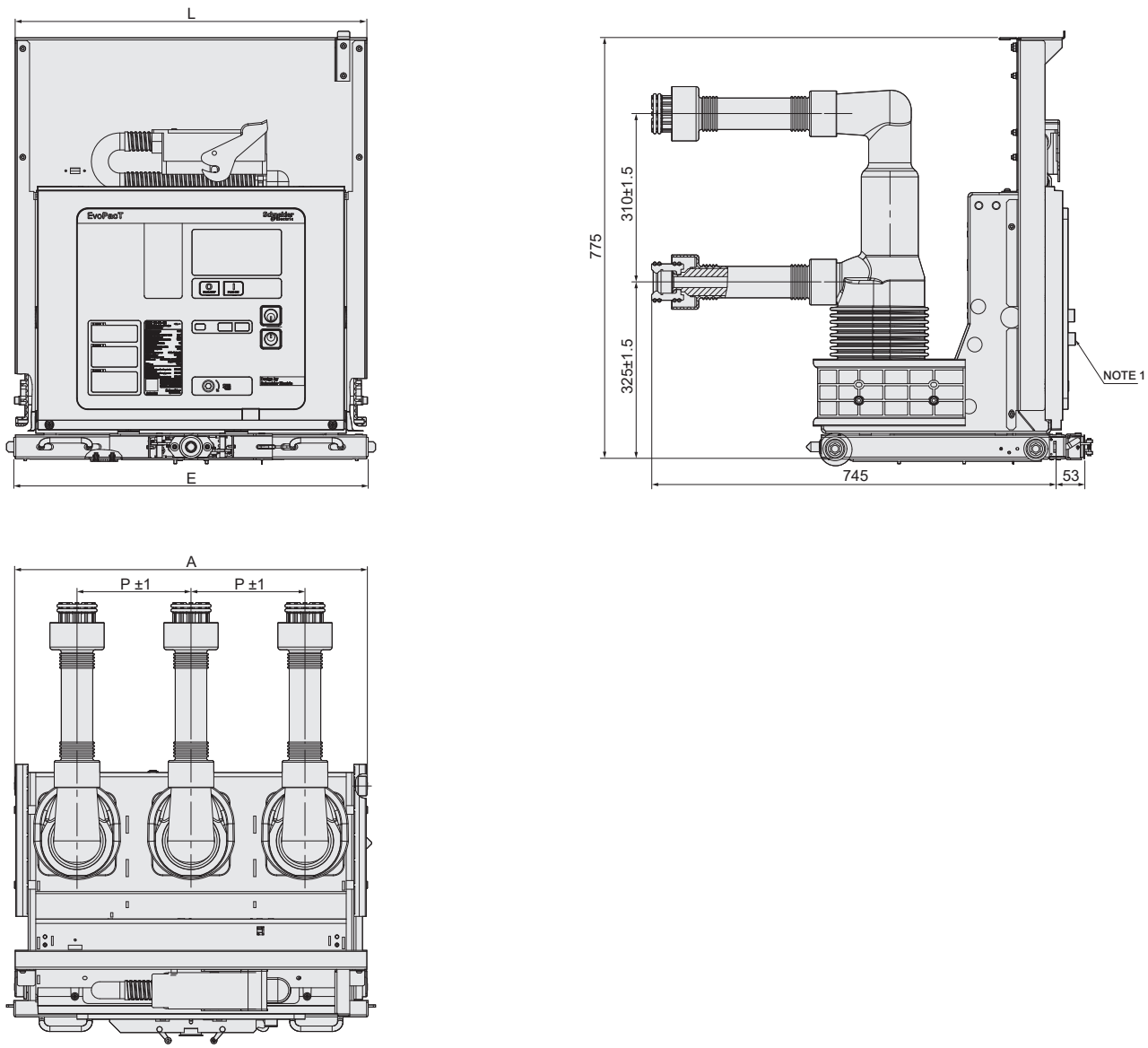


Note 1: Keylock and door interlock is optional.
Note 2: Refer to the outline drawing NAT1536902 for complete dimensions.
Note 3: All dimensions are in millimeters.

Withdrawable Circuit Breaker Dimensions 24 kV

24 kV, ≤ 1250 A, ≤ 31.5 kA

DM109982



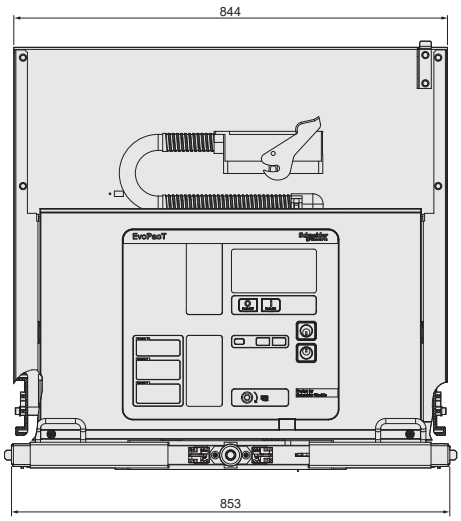
Note 1: Keylock is optional.
Note 2: Refer to the outline drawing PKR2219802 for complete dimensions.
Note 3: All dimensions are in millimeters.

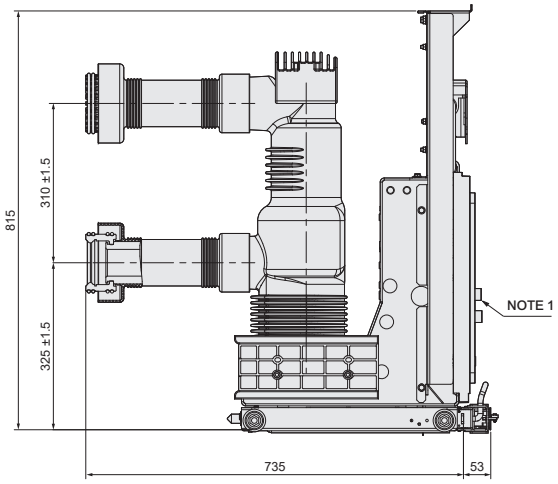
Rated current (A)	Rated short-circuit breaking current (kA)	P (mm)	A (mm)	E (mm)	L (mm)
630/1250	25/31.5	210	650	653	648
		275	850	853	844

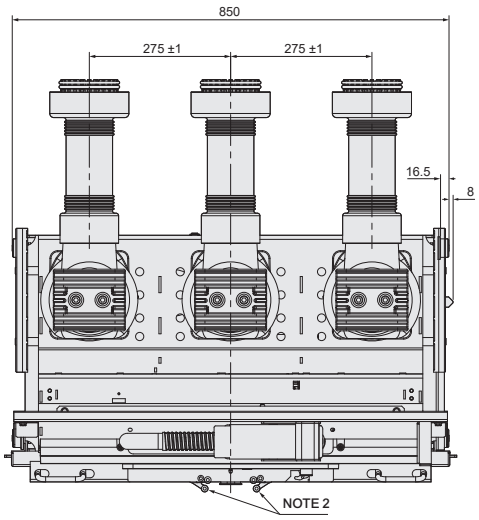
Withdrawable Circuit Breaker Dimensions 24 kV

24 kV, 1600 A ... 3150 A, ≤ 31.5 kA

DM110185





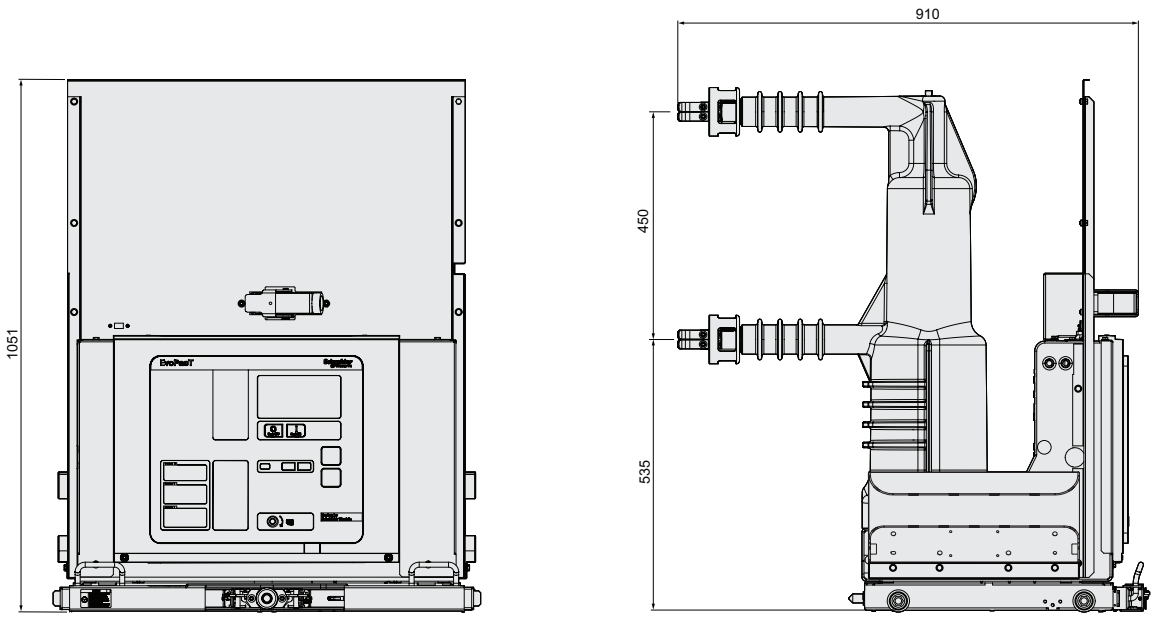


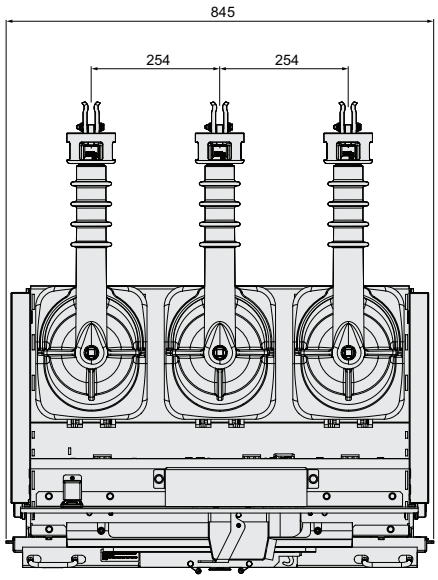
Note 1: Keylock is optional.
Note 2: Door interlock is optional.
Note 3: Refer to the Outline drawing BQT5438302 for complete dimensions.
Note 4: All dimensions are in millimeters.

Withdrawable Circuit Breaker Dimensions 36 kV

36 kV, 630/800/1250 A, 25/26.3/31.5 kA

JPS30307



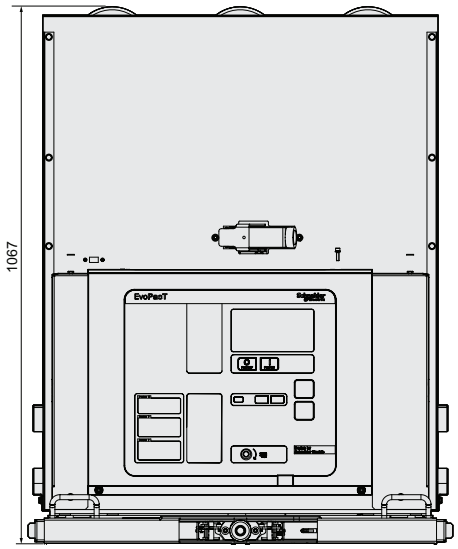


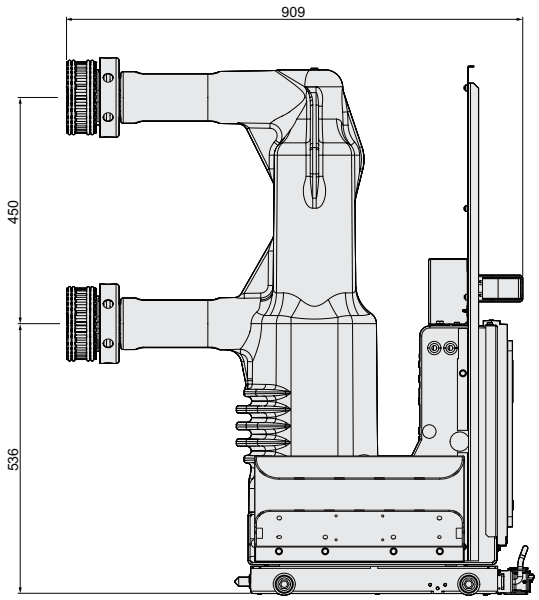
Note 1: Refer to the Outline drawing JPW038611 for complete dimensions.
Note 2: All dimensions are in millimeters.

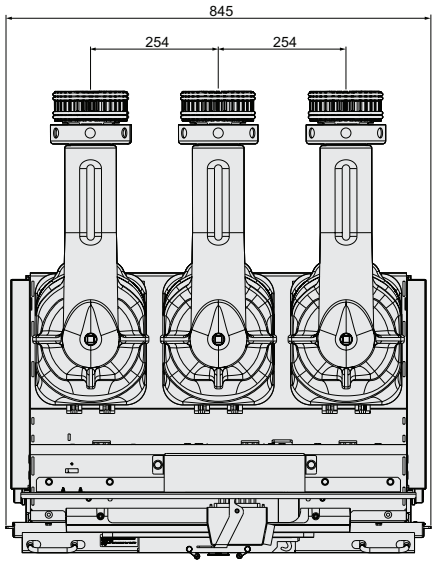
Withdrawable Circuit Breaker Dimensions 36 kV

36 kV, 2000/2500 A, 25/26.3/31.5 kA

JPS50961







Note 1: Refer to the Outline drawing JPW038627 for complete dimensions.
Note 2: All dimensions are in millimeters.

Function/Module Description

Function/Module Description

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Fixed Circuit Breaker 56
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Opening and Closing Functions 58

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Fixed and Withdrawable type VCB Wiring Diagram 64

Racking Truck 65

Interlock Functions 66

Key Locking Functions 67

Function/Module Description

Functional Overview

Fixed Circuit Breaker

PM110663

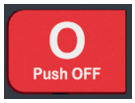


PM110664



Push button and indicators

PM110120



Opening Push button

PM110585



Closing Push button

PM110122



Main contact position indicator

PM110123



Spring charged and ready-to-close indicator

PM110124



Operating counter

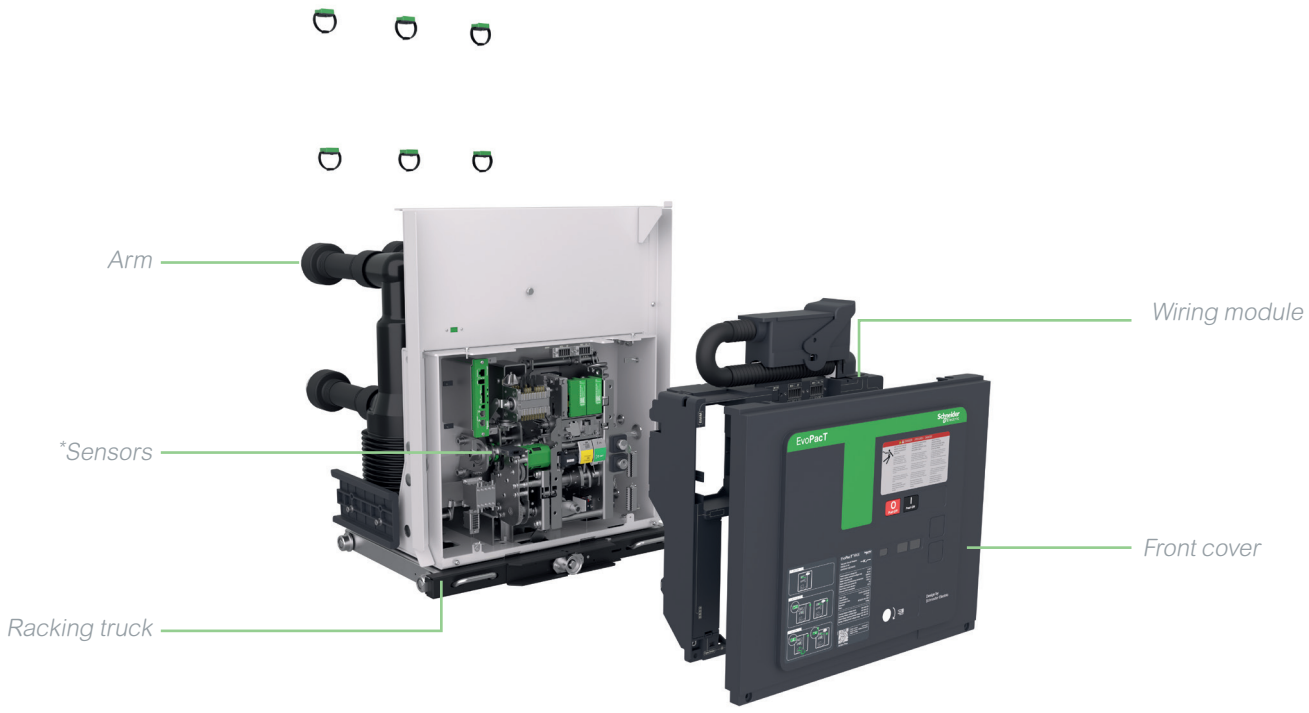
Nameplate

Function/Module Description

Functional Overview

Withdrawable Circuit Breaker

PM110582



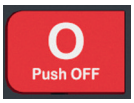
*Green sensors for health monitoring are optional

PM110585



Push button and indicators

PM110120



Opening Push button

PM110585



Closing Push button

PM110122



Main contact position indicator

PM110123



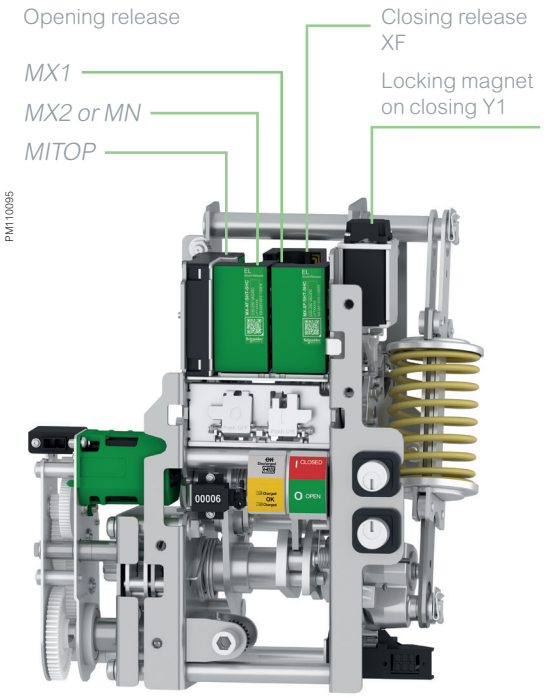
Spring charged and ready-to-close indicator

PM110124



Operating counter

Opening and Closing Functions



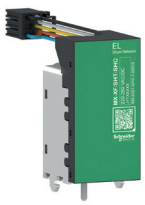
PM110095

Operating Mechanism

Shunt opening release MX

The MX shunt releases are used to open the circuit breaker. One shunt release is delivered along with the circuit breaker. A second optional one can be selected as a back-up. The shunt releases are actuated by the auxiliary power supply.
They 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 coil is designed for short operation only. It is therefore routed via an auxiliary switch contact controlled by the circuit breaker shaft, and upon release it interrupts the current circuit.
In case of electromechanical release, the release can be triggered by pulse or continuous command. When the command is in pulse form, the duration of the shortest pulse current should exceed 40 ms and the duration of the longest pulse current should remain within 1000 ms.

Characteristics		
Power supply	Vac	110/220
	Vdc	24/48/110/220
Operating range	Vac	0.85 to 1.1 Ua
	Vdc	0.7 to 1.1 Ua
Consumption	Vac	220 VA
	Vdc	220 W
Resistance	Ω	2.7/10.2/57.9/228.6



PM110110

Electronic release for MX1/MX2 and XF

Shunt closing release XF

The XF release is used to close the circuit breaker. The release coil is actuated by the auxiliary power supply when the voltage at the terminals of the release is between 85% and 110% of its rated voltage.
The coil is designed for short operation only. It is therefore routed via an auxiliary switch contact controlled by the circuit breaker shaft, and upon release it interrupts the current circuit.
In case of electromechanical release, the release can be triggered by pulse or continuous command. When the command is in pulse form, the duration of the shortest pulse current should exceed 40 ms and the duration of the longest pulse current should remain within 1000 ms.

Characteristics		
Power supply	Vac	110/220
	Vdc	24/48/110/220
Operating range	Vac	0.85 to 1.1 Ua
	Vdc	0.85 to 1.1 Ua
Consumption	Vac	220 VA
	Vdc	220 W
Resistance	Ω	2.7/10.2/57.9/228.6



PM110110

Electromechanical release for MX1/MX2 and XF

Operation Counter

The operation counter installed on the operating mechanism records the number of opening/closing cycles.



PM110008

Operation counter

Opening and Closing Functions

PM110087



Undervoltage release MN

Undervoltage Release MN

The undervoltage release opens the circuit breaker when the voltage at its terminals drops below 35% of its rated value, even if the reduction 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, care should be taken that the undervoltage release might operate to open the circuit breaker at these voltages.
For closing of the circuit breaker, the undervoltage release requirements (measured at terminals) are:

- >85% rated voltage to close
- <35% rated voltage closing is blocked

Characteristics						
Power supply	Vac	110/120				220/230
	Vdc	24-30	48-60		110-125	220-250
Operating range	Opening	0.35 to 0 Ua				
Starting consumption (W)	Vac	–			–	–
	Vdc	288	329	400		
Holding consumption (W)	Vac	–			–	–
	Vdc	4	7	6		

PM110020



Low energy release MITOP

Low Energy Release (MITOP)

The MITOP(1) release unit includes a low consumption unit and is specifically used with the Micom P115 self-powered unit “REFLEX MODULE”, or the VIP relay.
Any tripping due to the MITOP release unit is momentarily indicated by an SDE type changeover contact, provided with the MITOP.
The MITOP release unit also includes a coil (reset) enabling remote SDE contact reset.
Use of the Mitop low energy release requires adjustment of the protection relay time delay to help ensure that the circuit breaker trips between 45 ms to 50 ms.

This specific coil actuates the opening mechanism of the poles to trip the circuit breaker.

Characteristics	
Power supply	9 V
Consumption	1 (W/Vac)

(1) *MITOP is available only for Evo***PacT** *HVX 12 kV, 17.5 kV and 24 kV.*

PM110093



Locking magnet on closing Y1

Blocking Magnets

Locking magnet on closing Y1

If the controlling power supply to operate this magnet is lost, the circuit breaker cannot perform the normal closing operation (including manual closing).

Characteristics		
Power supply Ua	Vac	110/120/220
	Vdc	24/48/60/110/125/220
Operating range	Vac	0.85 to 1.1 Ua
	Vdc	0.85 to 1.1 Ua
Consumption	Vac	12±1 VA
	Vdc	12±1 W

CA3KN22ND



Anti-pumping relay K01

Anti-pumping relay K01

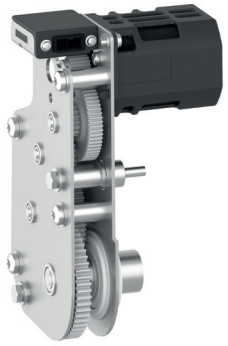
The anti-pumping relay(1) helps prevent continuous closing and opening of the circuit breaker (anti-pumping).
If both ON and OFF commands are permanently present on the circuit breaker at the same time, the circuit breaker will carry out a CLOSE-OPEN sequence; it remains in this open position until the CLOSE command is discontinued and a new CLOSE command is issued again.

(1) *Anti-pumping relay K01 is available only for Evo***PacT** *HVX 36 kV.*

Charging Functions

Circuit breaker charging motor and auxiliary contacts

PM110007



Charging motor M1

Operating Mechanism

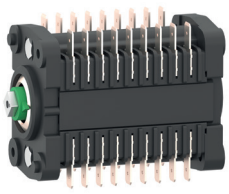
Charging Motor M1

The electric motor charges the spring of the operating mechanism automatically as soon as it is discharged. This allows the circuit breaker to switch the second close-open cycle within the rated operating sequence.

Characteristics		
Power supply	Vac	110/120/220/230
	Vdc	24/48/60/110/125/220
Operating range	Vac	0.85 to 1.1 Ua
	Vdc	0.85 to 1.1 Ua
Consumption	Vac	approx. 180 VA
	Vdc	approx. 180 W

Operating time of motor	
Motor charging time	≤12 s

PM110023



Auxiliary switch S11

Circuit Breaker ON/OFF Status Auxiliary Switch S11

The auxiliary contacts in switching position indicate the ON/OFF status of the circuit breaker. They are actuated directly by the main shaft of the circuit breaker via a mechanical link. The position of the main shaft corresponds to the position of the auxiliary switches and indicates whether the circuit breaker is in ON or OFF.

In the basic configuration, the circuit breaker's operating mechanism comprises a total of:

- 5NO/5NC available for customer use.

PM110089



Auxiliary switch in charging position S2-A

Characteristics									
Rated operational voltage (Ua)	Vac/dc	230							
Rated operational current (Ic)	A	10							
Rated short-time withstand current (Icw)	A	250 (during 3 s)							
Rated breaking capacity with inductive charge		L/R=10 ms						L/R=20 ms	
Voltage	Vdc	24	48	60	110	125	220	110	220
Charging current	A	10	8	6	4	3	2	10	5
Max capacity (W)		440							

PM110090



Auxiliary switch in charging position S2-B

Spring Charging Status Auxiliary Switch S2-A S2-B

The auxiliary switch is used to control the charging motor and to indicate the charging status.
When contact S2 is closed, the motor charges the spring of the operating mechanism automatically. When charging is complete, it breaks the electrical charging circuit.

Micro switch for charging S2-A	5 A / 250 Vdc	16 A / 250 Vac
Micro switch for control S2-B	16 A / 250 Vac	

PM110021



RTC

Auxiliary Switches for Ready to Close S4

The ready to close contact is operated by the opening half moon to confirm no opening order is present by mechanical push button, MX coils or MN coil.

Function/Module Description

Low Voltage Connection



Withdrawable Type Circuit Breaker

EvoPacT HVX 12 kV, 17.5 kV and 24 kV:

An optional flexible LV (Low Voltage) plug and socket system enables connection of the circuit breaker auxiliary circuits to the switchgear control cabinet. It consists of an elbow-type connector mounted on the frame of the circuit breaker and a removable connector with 58 male pins mounted on a 525 mm flexible duct.

The corresponding connector, fitted with female contacts, is installed within the switchgear's low-voltage cabinet.

The LV plug connects the VCB to the switchgear allowing control and status information to be passed between. A maximum of 58 pins are available therefore the number of Auxiliary OC contacts could be limited depending on VCB configuration.

The Evo**PacT** HVX LV connector can be removed only when the circuit breaker is in the test position.



EvoPacT HVX 36 kV:

LV plug and socket system enables connection of the circuit breaker auxiliary circuits to the switchgear control cabinet. It consists of LV plug on circuit breaker and LV socket on cubicle.
The LV plug connects the VCB to the switchgear allowing control and status information to be passed between. A maximum of 64 pins are available therefore the number of Auxiliary OC contacts could be limited depending on VCB configuration.
The socket and 64 contact pins will be provided as loose components for the connection to the switchgear Low Voltage cabinet.
The Evo**PacT** HVX LV connector can be removed only when the circuit breaker is in the test position.

Low Voltage Connection

Fixed Type Circuit Breaker

The circuit breaker is equipped with either a set of terminal blocks or a LV plug(1) to connect the circuit breaker auxiliary circuit with the LV wiring from the LV cabinet.

(1) *Fixed type circuit breaker with LV plug is available only for Evo***PacT** *HVX 36 kV.*

PM110083

PM110081

Terminal block

PM110080



PM110083

LV plug,
circuit breaker side

PM110080



LV socket,
cubicle side

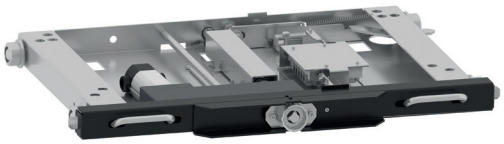
Fixed and Withdrawable Type VCB Wiring Diagram

List of wiring diagrams available in the **documents** section of country on Schneider Electric website:

Rated voltage	List of wiring diagrams	Description
12/17.5/24 kV	PKR73840	Fixed circuit breaker (5NO-5NC, E-Coil)
	JYT34513	Withdrawable circuit breaker (5NO-5NC, Digital, E-Coil)
	PKR73838	Withdrawable circuit breaker (5NO-5NC, E-Coil)
	PKR73839	Withdrawable circuit breaker (5NO-5NC, MITOP, E-Coil)
	JPU04854	Withdrawable circuit breaker (5NO-5NC, W-O Y1 Digital, E-Coil)
36 kV	D3992779	Withdrawable circuit breaker, Digital
	D3974536	Withdrawable circuit breaker
	D4044620	Withdrawable circuit breaker for manual RIRO
	JPT17311	Fixed circuit breaker

Racking Truck

PM110025



Racking truck

Withdrawable Type

In the withdrawable type, the Evo**PacT** HVX is mounted on a racking truck to move the circuit breaker between test position and service position.

The Evo**PacT** HVX racking truck consists of:

- A frame with 4 wheels for moving the circuit breaker.
- A drive system with a rotating shaft to move the circuit breaker inside the switchgear compartment.
- An optional motor drive for electrical operation. A motor controller attached to the circuit breaker, is required for the truck motorization.
- A set of auxiliary contacts (3NC+ 3NO available for customer use) to indicate the service or test position of the circuit breaker.
- A set of mechanical levers to interlock the truck with the operating mechanism and the earthing switch operation, if assembled in the switchboard.
- A system to latch the racking truck to the switchgear frame to withstand the mechanical forces of the short circuit.
- An interlock between the racking truck and the door of the panel.

The circuit breaker is equipped with devices to operate the shutter mechanism.

PM110026

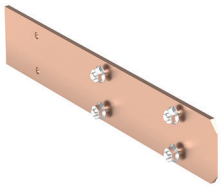


Racking truck motor M2

Racking Truck Motor M2 (Optional)

Characteristics		
Power supply	Vac	110/220/230
	Vdc	24/48/110/220
Operating range	Vac	0.85 to 1.1 Ua
	Vdc	0.85 to 1.1 Ua
Consumption	Vac	90 VA
	Vdc	90 W

PM108896



Underneath earthing

PM110765



Side earthing

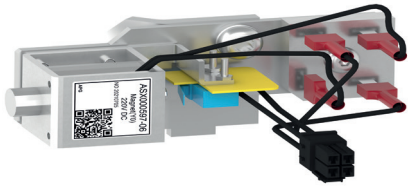
Earthing (optional)

The racking truck could be earthed via copper bars located underneath the racking truck.

In Evo**PacT** HVX 12/17.5/24 kV, both sides of the racking truck can also be equipped with earthing sliding contacts.

In Evo**PacT** HVX 36 kV, the racking truck is equipped with earthing sliding contact on the left side.

PM110018



Blocking magnet on racking truck Y0

Blocking Magnet

Blocking Magnet(1) on Racking Truck Y0

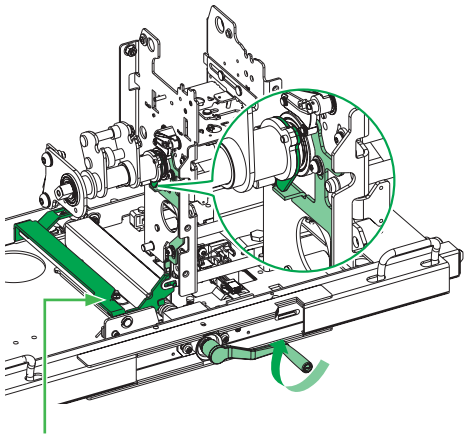
If the secondary controlling power supply is lost, the truck cannot be racked in or out (either manually or by motorization).

Characteristics		
Power supply Ua	Vac	110/120/220/230
	Vdc	24/48/60/110/125/220
Operating range	Vac	0.85 to 1.1 Ua
	Vdc	0.85 to 1.1 Ua
Consumption	Vac	3.6 VA
	Vdc	3.6 W

(1) *Blocking magnet is available only for Evo**PacT** HVX 12 kV, 17.5 kV and 24 kV.*

Interlock Functions

DM109768



Interlock

EvoPacT HVX Withdrawable Type Interlocking

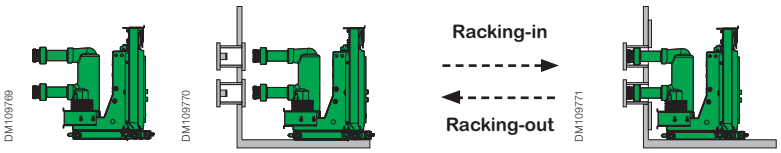
The following table describes the interlocking functions available on the withdrawable type of Evo**PacT** HVX.

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 with the racking truck is extracted from the switchgear.
- **Disconnected**: 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.

Circuit breaker status



Parts		Removed	Disconnected/Test	Intermediate	Service
Compartment shutters	Open	**Prohibited**	Not possible	Operating	Mandatory
	Closed	Mandatory	Mandatory		Not possible
Switchgear door	Open	Possible	Possible (1)	**Prohibited**	**Prohibited**
	Closed	Possible	Preferred	Mandatory (2)	Mandatory
Door handle		Unlocked	Unlocked	Locked (2)	Locked (2)
LV connector	Disconnected	Mandatory	Possible (1)	**Prohibited**	Prohibited
	Connected	Not possible	Preferred	Mandatory (3)	Mandatory (3)
CB main contacts position	Open	Possible	Preferred	Mandatory	Possible
	Closed	Possible	Possible	**Prohibited** (4)	Possible (5)
Earthing switch position	Open	Possible	Possible	Mandatory	Mandatory
	Closed	Possible	Possible (1)	**Prohibited**	**Prohibited**

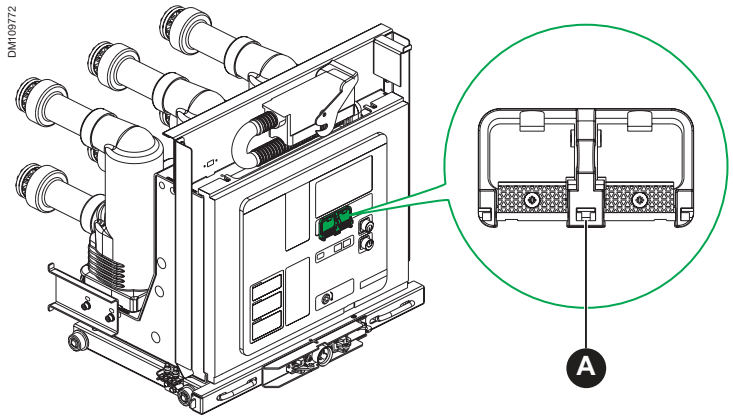
(1) Impossible to rack-in
(2) Impossible to access the CB compartment
(3) Impossible to access the LV plug
(4) Impossible to activate the **close** command
(5) Impossible to rack-out

Key Locking Functions

Locking the Push button

The Push button locking cover(1) (A) is an optional accessory that can be installed on the circuit breaker to enable the Push button to be locked.

(1) *Push button locking cover is available only for Evo***PacT** *HVX 12 kV, 17.5 kV and 24 kV.*

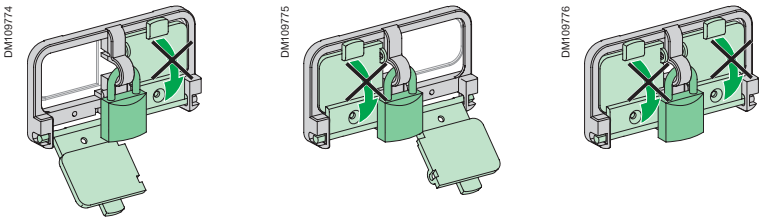


A Push button locking cover

Locking by padlock



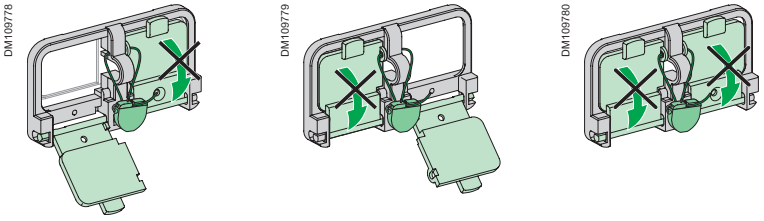
- 1 padlocks: Ø 5 to 8 mm, not supplied.



Locking by lead sealing



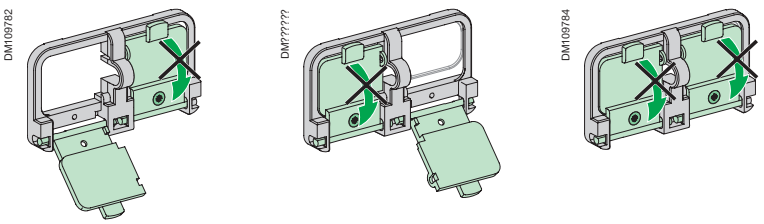
- Lead sealing system (ref. LV429375), not supplied.



Locking by screw



- Two M3 x 7 Cross countersunk head screws, supplied.



Key Locking Functions

Locking the Device in the Open Position

The circuit breaker is locked in the open position by locking the closing Push button with 1 or 2 keylocks.

The locking system(1) is an optional accessory that can be installed on the circuit breaker to enable the device to be locked in the OPEN position.

Consignment and locking procedures are defined by the end user.

(1) *Locking system is available only for Evo***PacT** *HVX 12 kV, 17.5 kV and 24 kV.*



A Key 1
B Key 2

Key Locking Functions

Castle lock (optional)

The Castle lock(1) system provides a mechanical interlocking solution to enhance operational safety and control of the circuit breaker.

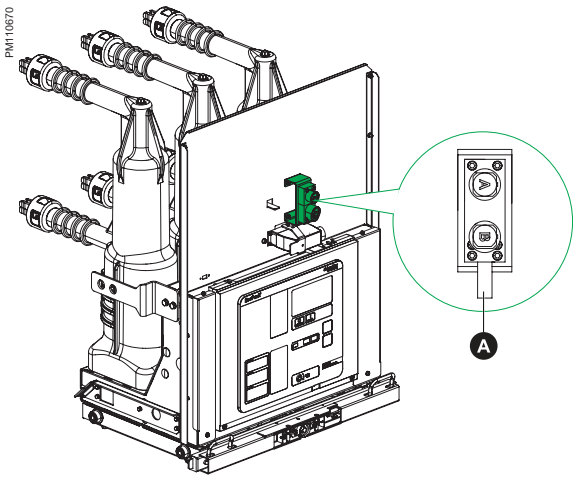
(1) *Castle lock is available only for Evo***PacT** *HVX 36 kV.*

Lock Condition

- Key is removable
- LV plug cannot be connected
- Circuit breaker cannot be racked into service position
- Circuit breaker can be switched ON/OFF mechanically or electrically in test position only

Unlock Condition

- Key remains captive
- LV plug can be connected
- Circuit breaker can be racked in and out
- Circuit breaker can be switched ON/OFF mechanically



A Castle lock system

Product References

Product References

Ordering the EvoPacT HVX 72
Product Selector 72

Commercial Reference Numbering System 73

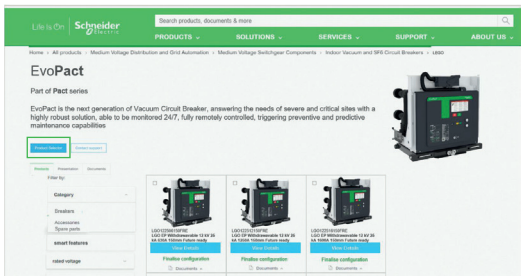
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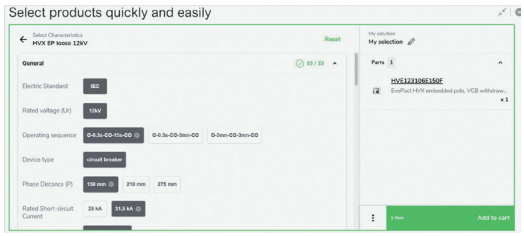
Ordering the EvoPacT HVX

Product Selector

PM110126



PM110127



To simplify and expedite the ordering of Evo**PacT** HVX, two new tools are available:

- **Product Selector**: An online software tool embedded in the website to help users to select the correct product and accessories.
- **Product Code**: An alphanumeric code representing the selection of a Evo**PacT** HVX circuit breaker. It simplifies communication of the selected circuit breaker during ordering, sharing information and remote assistance.

Product Selector

Product Selector aims at providing a fast, more secure and smarter way of selecting products. It includes the selection of the base unit, control unit, accessories and Digital Modules. Compared with the traditional way of filling up order forms or specifying customer functions, it brings the following benefits:

- Easy access: no login, direct access on Schneider Electric website or on distributor's website.
- High reliability: compatibility between core product and accessories is constantly tested. Plus always up-to-date product ordering information.
- Wide coverage: more than 130 ranges from Schneider Electric are available (Evo**PacT** HVX, MasterPact, ComPact, TeSys, PowerLogic…).

Commercial Reference Numbering System

Product Code Composition Evo**PacT** HVX 12/17.5/24kV

Example:

Base function for VCB
12 kV - 31.5 kA - 1250 A - fixed - PD = 210 mm digital

EAT - K - 12 - 31 - 12 - E - 210 - AP

The product code composition is: **EAT K 12 31 12 E 210 P1**

EAT - K - 12 - 31 - 12 - E - 210 - AP

Range	Code
EvoPacT HVX	**EAT**

Cubicle type

Value	Code
KYN	**K**
MCSeT	**M**

Rated voltage

Value	Code
12 kV	**12**
17.5 kV	**17**
24 kV	**24**

Short-circuit current

Value	Code
25 kA	**25**
31.5 kA	**31**
40 kA	**40**

Rated current

Value	Code
630 A	**06**
1 250 A	**12**
1 600 A	**16**
2 000 A	**20**
2 500 A	**25**
3 150 A	**31**
4 000 A	**40**

Digital	Code
Digital-Ready	**R0**
Digital-Active1	**A1**
Digital-Active2	**A2**
Digital-Active3	**A3**
Digital-Active Plus	**AP**

Phase/Pole Distance

Value	Code
150 mm	**150**
210 mm	**210**
275 mm	**275**

Installation	Code
Fixed	**F**
Manual withdrawable circuit breaker	**E**
Motorized withdrawable circuit breaker	**M**

Commercial Reference Numbering System

Product Code Composition Evo**PacT** HVX 36 kV

Example:

Base function for VCB
36 kV - 31.5 kA - 630 to 2500 A - fixed - PD = 254 mm digital

EAA - K - 36 - 31 - 06 - E - 254 - R0

The product code composition is: **EAA K 36 31 06 E 254 R0**

EAA - K - 36 - 31 - 06 - E - 254 - R0

Range	Code
EvoPacT Assembled Pole	**EAA**

Cubicle type	Code
Interface	**K**

Rated voltage

Value	Code
36 kV	**36**

Short-circuit current

Value	Code
25 kA	**25**
26.3 kA	**26**
31.5 kA	**31**

Rated current

Value	Code
630 A	**06**
800 A	**08**
1250 A	**12**
2000 A	**20**
2500 A	**25**

Digital

Digital	Code
Digital-Ready	**R0**
Digital-Active 1	**A1**
Digital-Active 2	**A2**
Digital-Active 3	**A3**
Digital-Active Plus	**AP**

Phase/Pole Distance

Value	Code
254 mm	**254**

CB Pole type

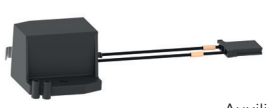
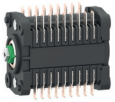
Installation	Code
Manual withdrawable	**E**
Motorised withdrawable	**M**
Fixed type	**F**

Spare Parts

Shunt Release MX-XF	Rated voltage (kV)	Description	References
 Electronic release	12/17.5/24	MX-XF Release 24-30 Vdc	SPKELRMXF024DS
		MX-XF Release 48-60 Vdc	SPKELRMXF048DS
		MX-XF Release 110-125 Vac/DC	SPKELRMXF110VS
		MX-XF Release 220-230 Vac/DC	SPKELRMXF220VS
 Electromechanical release	36	MX-XF Release 24-30 Vdc	SPKJYT27213
		MX-XF Release 48-60 Vdc	SPKJYT27212
		MX-XF Release 110-125 Vdc	SPKJYT27211
		MX-XF Release 220-250 Vdc	SPKJYT27211
		MX-XF Release 110-120 Vac	SPKJYT27216
		MX-XF Release 220-250 Vac	SPKJYT27214
 Low energy release MITOP	12/17.5/24	MITOP	SPKMITS
 Undervoltage release MN	12/17.5/24	MN Release 24-30 Vdc	SPKMNU3024DS
		MN Release 48-60 Vdc	SPKMNU3048DS
		MN Release 110-125 Vac/DC	SPKMNU3110VS
		MN Release 220-230 Vac/DC	SPKMNU3220VS
	36	MN Release 24-30 Vdc	SPKJYT27525
		MN Release 48-60 Vdc	SPKJYT27524
		MN Release 110-125 Vac/DC	SPKJYT27523
		MN Release 220-250 Vac/DC	SPKJYT27522

Spare Parts

Spring charging motor M1	Rated voltage (kV)	Description	References
 M1 Spring charging handle	12/17.5/24	Motorization 24-30 Vdc	SPKMCH024S
		Motorization 48-60 Vdc	SPKMCH048S
		Motorization 110-125 Vdc	SPKMCH110S
		Motorization 220-250 Vdc	SPKMCH220S
		Motorization 110-130 Vac 50/60 Hz	SPKMCH110S
		Motorization 220-240 Vac 50/60 Hz	SPKMCH220S
		Spring charging handle	SPKSCH
	36	Motorization 24-30 Vdc	SPKTME90171
		Motorization 48-60 Vdc	SPKTME90170
		Motorization 110-125 Vdc	SPKTME90169
		Motorization 220-250 Vdc	SPKBRU88092
		Motorization 110-130 Vac 50/60 Hz	SPKTME90169
		Motorization 220-240 Vac 50/60 Hz	SPKBRU88092
		Spring charging handle	SPKGEX39109

Auxiliary contacts	Rated voltage (kV)	Description	References
 RTC  Auxiliary switch S11	12/17.5/24	Ready to close (1 micro switch)	SPKMFR81357
		Micro switch of motor charging S2-A	SPKMFR81341
		Micro switch of motor charging S2-B	SPKJYT51765
		9NC/9NO	SPKNNZ27367
		12NC/12NO	SPKNNZ12039
 S2-A contact  S2-B contact	36	Ready to close (1 micro switch)	SPKMFR81357
		Ready to close (2 micro switch)	SPKJYT58463
		Micro switch of motor charging S2-A	SPKMFR81341
		8NC/8NO	SPKAVX002294-03

Keylocks & Interlocks	Rated voltage (kV)	Description	References
	12/17.5/24	1 Key	SPKLCKL1K1FS
		2 Key	SPKLCKL1K1FIS

Spare Parts

Push button	Rated voltage (kV)	Description	References
	12/17.5/24	Padlock O/C Push button padlocking	SPKLCKPLS

LV Plug and accessories	Rated voltage (kV)	Description	References
 Wiring accessories	12/17.5/24	LV plug connector kit on cubicle side	SPKLVC58FE
	36	64 Pin LV Plug	JPT06298

Arms	Rated voltage (kV)	Description	References
 Arm	12/17.5	Kit 1 arm: 12 kV 630 A/≤ 31.5 kA	SPKGEX80004
		Kit 1 arm: 12 kV 1250 A/≤ 31.5 kA	SPKNNZ12245
		Kit 1 arm: 12 kV 1250 A/40 kA	SPKNNZ24394
		Kit 1 arm: 12 kV 1600 A/2000 A/≤ 40 kA	SPKNNZ24396
		Kit 1 arm: 12 kV 2500 A/3150 A/4000 A/≤ 40 kA	SPKNNZ24397
		Kit 1 arm: 17.5 kV 630 A/≤ 31.5 kA	SPKBRU64898
		Kit 1 arm: 17.5 kV 1250 A/≤ 31.5 kA	SPKBRU65001
		Kit 1 arm: 17.5 kV 1250 A/40 kA	SPKBRU65091
		Kit 1 arm: 17.5 kV 1600 A/2000 A/≤ 40 kA	SPKBRU65125
		Kit 1 arm: 17.5 kV 2500 A/3150 A/4000 A/≤ 40 kA	SPKNNZ24397
 Digital arm	12/17.5	Kit 1 arm with TH110: 12/17.5 kV 630 A/≤ 31.5 kA	SPKJYT34787
		Kit 1 arm with TH110: 12/17.5 kV 1250 A/≤ 31.5 kA	SPKJYT35705
		Kit 1 arm with TH110: 12/17.5 kV 1250 A/40 kA	SPKJYT35714
		Kit 1 arm with TH110: 12/17.5 kV 1600 A/2000 A/≤ 40 kA	SPKJYT35908
		Kit 1 arm with TH110: 12/17.5 kV 2500 A/3150 A/4000A/≤ 40 kA	SPKJYT35910

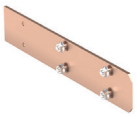
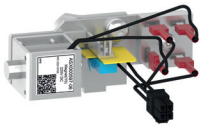
Clusters	Rated voltage (kV)	Description	References
	12/17.5/24	Kit 1 cluster: 630 A/≤ 25 kA	SPKMVC122506KYS
		Kit 1 cluster: 630 A/31.5 kA	SPKMVC123106KYS
		Kit 1 cluster: 1250 A/≤ 31.5 kA	SPKMVC123112KYS
		Kit 1 cluster: 1250 A/40 kA	SPKBQT71823
		Kit 1 cluster: 1600 A/≤40 kA	SPKMVC243116KYS
		Kit 1 cluster: 2000 A/≤ 40 kA	SPKMVC243120KYS
		Kit 1 cluster: 2500 A/3150 A/4000 A/≤ 40 kA	SPKMVC243131KYS
	36	2500 A, 31.5 kA	SPKJPT79810

Spare Parts

Closing locking magnet with micro switch (Y1)	Rated voltage (kV)	Description	References
 Y1	12/17.5/24	24 Vdc	SPKLCKLM024DCS
		48 Vdc	SPKLCKLM048DCS
		60 Vdc	SPKLCKLM060DCS
		110 Vdc	SPKLCKLM110DCS
		220 Vdc	SPKLCKLM220DCS
		110 Vac	SPKLCKLM110ACS
		220 Vac	SPKLCKLM220ACS
	36	24 Vdc	SPKNNZ77900
		48 Vdc	SPKJYT56123
		60 Vdc	SPKJYT56125
		110 Vdc	SPKJYT56126
		220 Vdc	SPKJYT56128
		110 Vac	SPKJYT56130
		220 Vac	SPKJYT56132

Anti-pumping relay K01	Rated voltage (kV)	Description	References
 Anti-pumping relay K01	36	Anti-pumping relay K01 60 Vdc	CA3KN22ND
		Anti-pumping relay K01 24 Vdc	CA3KN22BD
		Anti-pumping relay K01 48 Vdc	CA3KN22ED
		Anti-pumping relay K01 220 Vdc	CA3KN22MD
		Anti-pumping relay K01 125 Vdc	CA3KN22GD
		Anti-pumping relay fixed 110 Vdc	CA3-KN22FD
		Anti-pumping relay withdrawable digital 110 Vdc	CA3KN22FD
		Anti-pumping relay withdrawable non-digital 110 Vdc	CA3KN22FD
		Anti-pumpingrelay K01 230 Vac	CA2KN22P7
		Anti-pumping relay K01 125 Vac	CA2KN22FC7

Spare Parts

Truck Components	Rated voltage (kV)	Description	References
 Underneath earthing  Side earthing	12/17.5/24	Both side earthing	SPKRDEBSES
		Underneath earthing PD210	SPKRDBEOE24LS
		Underneath earthing PD275	SPKRDEBOE24MS
		Without earthing	SPKRDENOES
		Door interlock	SPKLCKDLS
 Without earthing		Truck handle	SPKCHD8000092R0114
	36	Side earthing	SPKAVXN00203-01
		Bottom Earthing	SPKJPW004870
 Door interlock		Earthing Interlock assembly	SPKJPT15558
 Truck handle		Racking handle	SPKEXESHFT3
 Shutter ramp	12/17.5/24	Shutter ramp CD 205 mm PD 210 mm	SPKSHUDRIV24LS
		Shutter ramp CD 310 mm PD 275 mm	SPKSHUDRIV24MS
	36	Shutter ramp phase distance 254 mm	SPKJPU11723
 Blocking magnet on racking truck (Y0)	12/17.5/24	24 Vdc	SPKLCKLM024DRS
		48 Vdc	SPKLCKLM048DRS
		60 Vdc	SPKLCKLM060DRS
		110 Vdc	SPKLCKLM110DRS
		125 Vdc	SPKLCKLM125DRS
		220 Vdc	SPKLCKLM220DRS
		110 Vac	SPKLCKLM110ARS
		220 Vac	SPKLCKLM220ARS

Spare Parts

Trucks	Rated voltage (kV)	Description	References
 Manual truck	12/17.5/24	Complete KYN type truck with interlock connector for PD210 mm, ≤ 31.5 kA	SPKRDM300LS
		Complete KYN type truck with interlock connector for PD275 mm	SPKRDM300MS
	36	Complete truck with interlock connector for PD254 mm	SPKBRU26969
 Motorization truck	12/17.5/24	Complete KYN type truck with interlock connector for PD210 mm,≤ 31.5 kA for 220 Vac/DC	SPKRDE300L220S
		Complete KYN type truck with interlock connector for PD275 mm for 220 Vac/DC	SPKRDE300M220S
		Complete KYN type truck with interlock connector for PD210 mm,≤ 31.5 kA for 110 Vac/DC	SPKRDE300L110S
		Complete KYN type truck with interlock connector for PD275 mm for 110 Vac/DC	SPKRDE300M110S
		Complete KYN type truck with interlock connector for PD210 mm,≤ 31.5 kA for 48 Vdc	SPKRDE300L048S
		Complete KYN type truck with interlock connector for PD275 mm for 48 Vdc	SPKRDE300M048S
		Complete KYN type truck with interlock connector for PD210 mm,≤ 31.5 kA for 24 Vdc	SPKRDE300L024S
		Complete KYN type truck with interlock connector for PD275 mm for 24 Vdc	SPKRDE300M024S
	36	Complete truck with interlock connector for PD254 mm for 220 Vdc	SPKJPS27059
		Complete truck with interlock connector for PD254 mm for 110 Vdc	SPKBRU94874

Spare Parts

Digital	Rated voltage (kV)	Description	References
 **Digital Brick**	12/17.5/24/36	EcoStruxure Operation Server BM100	SPKDIGBM100S
     **Sensors**	12/17.5/24/36	EvoPacT HVX Vacuum Interrupter Tag VI110	SPKDIGVI110S
		EvoPacT HVX Mechanism Tag (MC 110)	SPKDIGMC110S
		EvoPacT HVX Truck Stroke Tag TS110	SPKDIGTS110S
		Powerlogic Thermal Tag TH110	EMS59440
		Powerlogic Environmental Tag CL110	SPKEMS59443
	12/17.5/24/36	EcoStruxure Panel Server Hub	PAS600L
 	12/17.5/24/36	Switchboard HMI	HMIST6700 or HMIP6DFB0- NA0WNAN00

EvoPacT HVX Order Form

Basic Equipment

- To fill in the form, check the boxes √ that match your choices.
- Below accessories must be ordered separately:
  - Crank for manual circuit breaker Racking truck.
  - Crank for charging the operating mechanism.
  - 58 pins connector with female pins, loose component for use in low voltage cabinet.

Basic equipment	Product range: EvoPacT HVX ~ 36 kV ☐				Quantity ☐
Version type	Withdrawable (E) ☐		Fixed (F) ☐		
Standard	IEC 62271-100:2021 ☐				
Rated voltage (Ur.)	12 kV ☐	17.5 kV ☐	24 kV ☐	36 kV ☐	
Rated current					
630 A ☐	800 A ☐	1,250 A ☐	1,600 A ☐	2,000 A ☐	2,500 A ☐	3,150 A ☐	4,000 A ☐
Rated short-time withstand current (Ik)	20 kA ☐	25 kA ☐	26.3 kA ☐	31.5 kA ☐	40 kA ☐
Phase distance (P)	150 mm ☐	210 mm ☐	254 mm ☐	275 mm ☐	
Opening release (MX1)					
	24-30 Vdc ☐	48-60 Vdc ☐	110-120 Vac ☐	220-240 Vac ☐	
	110-125 Vdc ☐	220-250 Vdc ☐			
Closing release (XF)					
	24-30 Vdc ☐	48-60 Vdc ☐	110-120 Vac ☐	220-240 Vac ☐	
	110-125 Vdc ☐	220-250 Vdc ☐			
Charging motor (M1)					
	24-30 Vdc ☐	48-60 Vdc ☐	110-130 Vac ☐	220-240 Vac ☐	
	110-125 Vdc ☐	220-250 Vdc ☐			
Dimension drawing	Standard ☐	Non-standard ☐			
Wiring diagram	5NO/5NC ☐	Non-standard ☐			
Type of earthing (withdrawable type only)					
	Underneath earthing ☐		Side earthing ☐	Other ☐	
Low voltage plug type			LV plug connector ☐		Wiring by terminal block ☐
Documentation language			English ☐		☐
Type of rack-in	Manual operating mechanism ☐				Motor operating mechanism ☐
Motor drive for racking truck for 24 kV					
220 Vdc ☐	110 Vdc ☐	48 Vdc ☐	24 Vdc ☐	220 Vac ☐	110 Vac ☐
Motor drive for racking truck for 36 kV					
220 Vac ☐	110 Vac ☐				
Operating sequence					
O-0.3 s-CO-3 min-CO Standard ☐		O-3 min-CO-3 min-CO ☐		O-0.3 s-CO-15 s-CO ☐	

EvoPacT HVX Order Form

Options and Accessories

Optional equipment

Blocking magnet on closing (Y1)

220 Vdc ☐ 110 Vdc ☐ 60 Vdc ☐ 220 Vac ☐ 110 Vac ☐ Without ☐
48 Vdc ☐ 24 Vdc ☐

Blocking magnet on racking truck (Y0)

48 Vdc ☐ 60 Vdc ☐ 110 Vdc ☐ 110 Vac ☐ 220 Vac ☐ Without ☐
220 Vdc ☐

Second opening release (MX2)

24-30 Vdc ☐ 48-60 Vdc ☐ 110-125 Vdc ☐ 110-120 Vac ☐ 220-240 Vac ☐ Without ☐
220-250 Vdc ☐

Undervoltage release (MN)

24-30 Vdc ☐ 48-60 Vdc ☐ 110-125 Vdc/ac ☐ 110-125 Vdc/ac ☐ 220-250 Vdc/ac ☐ Without ☐
220-250 Vdc/ac ☐

Low energy release (MITOP) With ☐ Without ☐

Interlock with door With ☐ Without ☐

Optional - Digital bundles

Active 1: On-demand thermal monitoring ☐

Active 2: Continuous thermal monitoring ☐

Active 3: Continuous thermal monitoring + Auxiliary circuit and racking compatibility monitoring ☐

Active Plus: Continuous thermal monitoring + Auxiliary circuit & racking compatibility monitoring + Mechanism & VI monitoring ☐

Special conditions (please contact Schneider Electric Application Engineer)

1 .....

2 .....

Accessories for 12/17.5/24 kV	Drawing	Quantity
Accessories for Evo*PacT* HVX withdrawable type		
Circuit breaker racking handle	CHD8000092R0114	
Circuit breaker spring charging handle	EATSCH	
58 pins female LV plug (switchgear side) with Ethernet connection	EATLVC58FE	
Accessories for Evo*PacT* HVX fixed type		
Circuit breaker spring charging handle	EATSCH	
58 pins female LV plug (switchgear side) with Ethernet connection	EATLVC58FE	

EvoPacT HVX Order Form

Options and Accessories

Accessories for 36 kV	Drawing	Quantity
Accessories for Evo**PacT** HVX withdrawable type		
Circuit breaker racking handle	EXESHFT3	
Circuit breaker spring charging handle	GEX39109	
Accessories for Evo**PacT** HVX fixed type		
Circuit breaker spring charging handle	GEX39109	

Notes

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Energy Tech