



Panel Builders

Elevate the Design of your MV Switchgear
with More Advanced and Sustainable
components

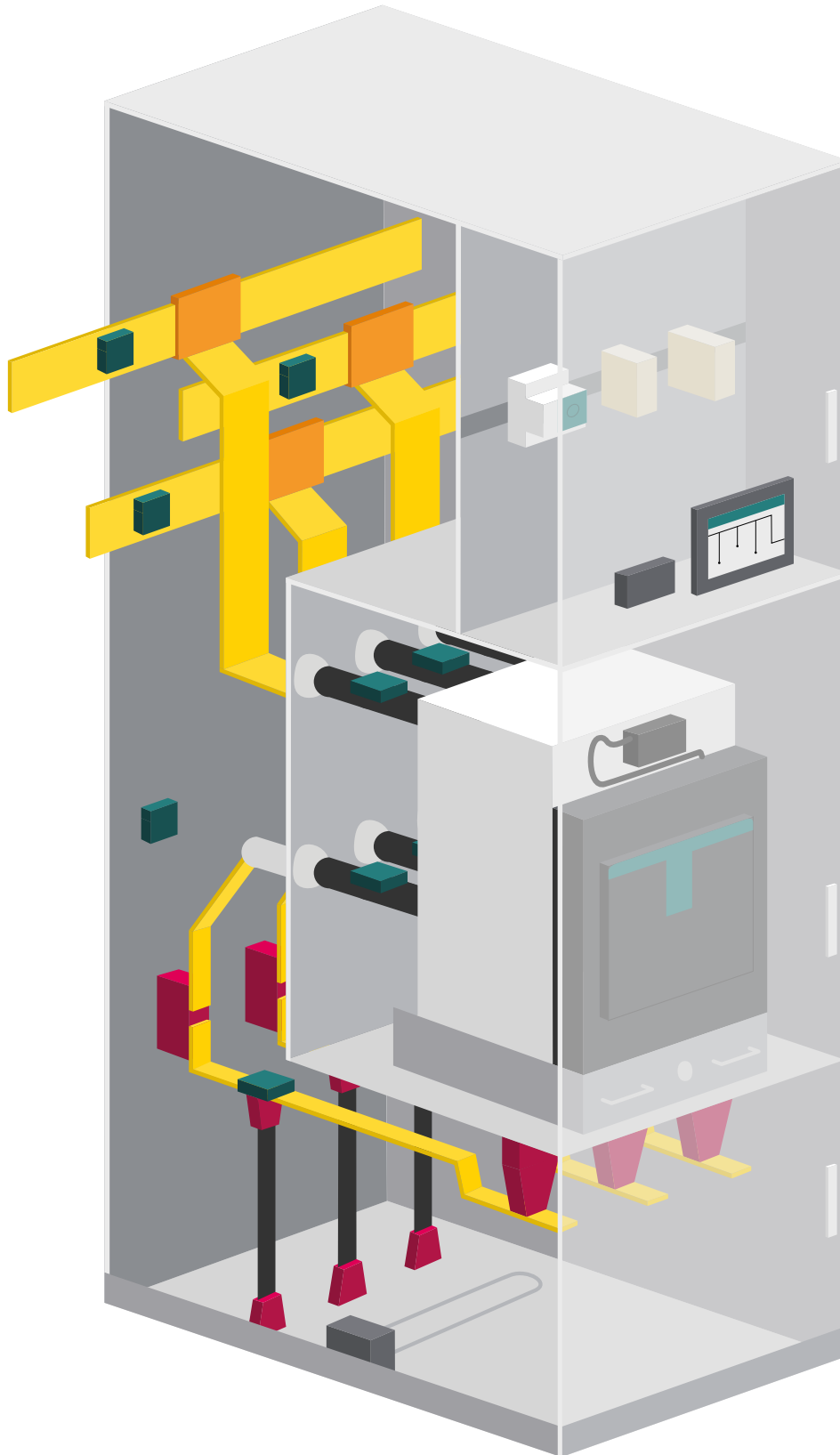
Catalog 2026

Components for Medium Voltage Switchgear

se.com/mv-panelbuilder

Life Is On

Schneider
Electric



In this overview, Schneider Electric presents all the Medium Voltage and Low Voltage components you need to build your Medium Voltage Switchgear.

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Today's Technologies for tomorrow's challenges

As the energy landscape rapidly evolves, industries leading this transformation must be ready to tackle future challenges to remain competitive. Our solutions are designed to meet the latest standards, embrace emerging priorities, and optimize operational efficiency, empowering you to succeed today while preparing for tomorrow.

With future regulations and shifting customer expectations in mind, our products help you stay ahead and meet the demands of both today's and tomorrow's markets.



PM110178

User-Centric Innovation

We develop components for the most demanding applications, guided by insights from industry professionals, operators, and end users. As the world and customer expectations shift toward more sustainable and energy-efficient solutions, our innovations reflect this evolution.



PM109463

Enhanced Sustainability and Efficiency

Engineered for build-in-class quality and safety, our components enable panel builders to deliver more resilient, efficient, and sustainable systems. By supporting sustainable practices and optimizing operational performance, they ensure lasting value and a solid return on investment for every installation.



PM110178

Optimized Processes

Our experts and products streamline integration, operation, and maintenance. From design to commissioning, we help panel builders save time and maximize productivity at every stage of their business.

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Electricity is getting more Digital and Sustainable, are you ready?

We are dedicated to empowering Medium-Voltage (MV) panel builders with innovative solutions that redefine sustainability and efficiency in the evolving energy landscape. Our compact, SF₆-free technology reflects our commitment to reducing environmental impact while enabling smarter switchgear that delivers a clear competitive edge.

By harnessing the advantages of digital enhanced interoperability, we unlock new opportunities for optimizing energy management. These advancements provide MV Panel builders with the tools to quickly adapt to evolving customer demands, streamline product configurations, and maximize operational performance and durability.

EvoPacT™ HVX Next generation of circuit breaker



Revolutionary MV Circuit Breakers

The EvoPacT™ HVX circuit breaker is engineered for performance and reliability in today's demanding electrical systems.

- Equipped with cutting-edge IoT sensors, it monitors the circuit breaker health.
- Provides real-time insights to streamline maintenance activities.
- Helps optimize operations and reduce operational risks.
- Offers a dependable solution for industrial and commercial environments.

EvoPacT ETL Lateral Vacuum circuit-breaker for MV Secondary distribution



Fast-track and Flexible Integration

The EvoPacT ETL circuit breaker is engineered for panel builders seeking efficiency.

- Modernized design leverages field-proven technology for reliability and performance.
- Offers easy customization
- Adapts seamlessly to any integration, fixed or withdrawable designs including last-minute auxiliary additions for maximum flexibility.

AirPacT SF₆-free switch and disconnect



Decarbonize

The use of Pure Air technology eliminates the need of SF₆ gas in MV switchgear, a known high potential Global Warming gas (supports compliance with the SF₆ ban effective January 2026 in Europe).

Additionally, we continually strive to increase equipment efficiency and longevity with groundbreaking innovations such as mechanisms using composite materials, thereby extending operational life.



Enhanced on Quality and Safety

At Schneider Electric, we focus on enhancing quality and safety. Our MV components undergo rigorous testing to help ensure reliability and performance, exceeding industry standards. Standardized global manufacturing and quality processes help deliver precise, dependable products you can trust.

Fully type-tested and compliant with international and local standards

We have a specific attention to safety and reliability of our products, thus during the entire process from conception, and all along the manufacture, our components are following stringent tests and rigorous control routine. In addition, our devices undergo tests in laboratories across the world and are compliant with the latest standards globally and locally.

Quality certification: ISO 9001 and ISO 14001

We adhere to a unified quality process across all our facilities worldwide, to help ensure consistent standards. Every unit of Schneider Electric has a quality operating organization, with stringent procedures:

- Uniform for all departments
- Recognized by numerous customers and official organizations



PM111586

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Expertise and Support to Help You Succeed

Benefit from Tailored Technical Guidance from our Specialists on Demand

Our specialists offer on-demand technical guidance to simplify product integration and accelerate your adoption of our solutions.

We add value by:

- Accelerating the adoption of our offers
- Simplifying component integration
- Sharing technical expertise and innovative solutions

We support you through:

- Assistance with integrating Schneider Electric components
- Simulation of Panel Builder's cubicles into the CAE tool by our core experts, prior to extensive testing
- Support and guidance to prepare Panel Builder's switchgears for type testing
- Training on our products
- Factory visits to experience our processes firsthand



PM110898

Tools to Help You Achieve More

To help ease and secure your designs:

- CAD and drawings are accessible from our Web and Partner Portal
- Access to product installation videos
- Sharing technical expertise and innovative solutions

Share technical Information with your customers:

- User guides, installation manuals, and other technical documentation
- Products catalogs
- Maintenance guides and end-of-life manuals

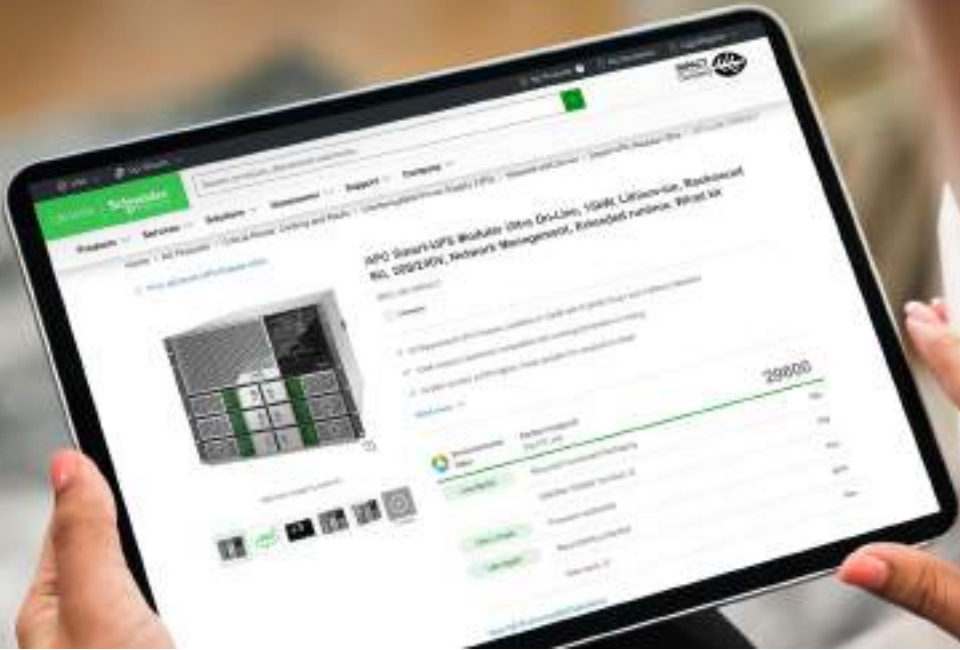


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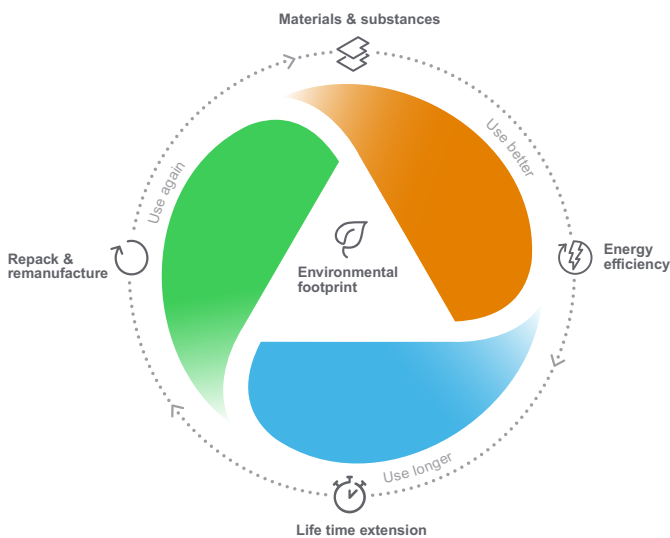
Environmental Data Program



Next-level transparency for better-informed product choices

The Environmental Data Program is a framework for how we measure, categorize, and compare the environmental attributes and footprint of our products.

Using a rigorous, fact-based methodology, the program provides environmental data from across the product lifecycle.



Use Better: How sustainable a product is, including environmental footprint, materials and substances, packaging, and energy efficiency.

Use Longer: How a product's life time can be effectively extended in terms of repairability and updatability.

Use Again: How a product can be reused, from dismantling and remanufacturing to recyclability and manufacturer take back.

With this transparent, verified data, customers and partners are empowered to make conscious environmental choices and accurately evaluate and report on sustainability performance.

All our hardware offers have an associated environmental data available on se.com product pages.



Learn more about the
Environmental Data Program

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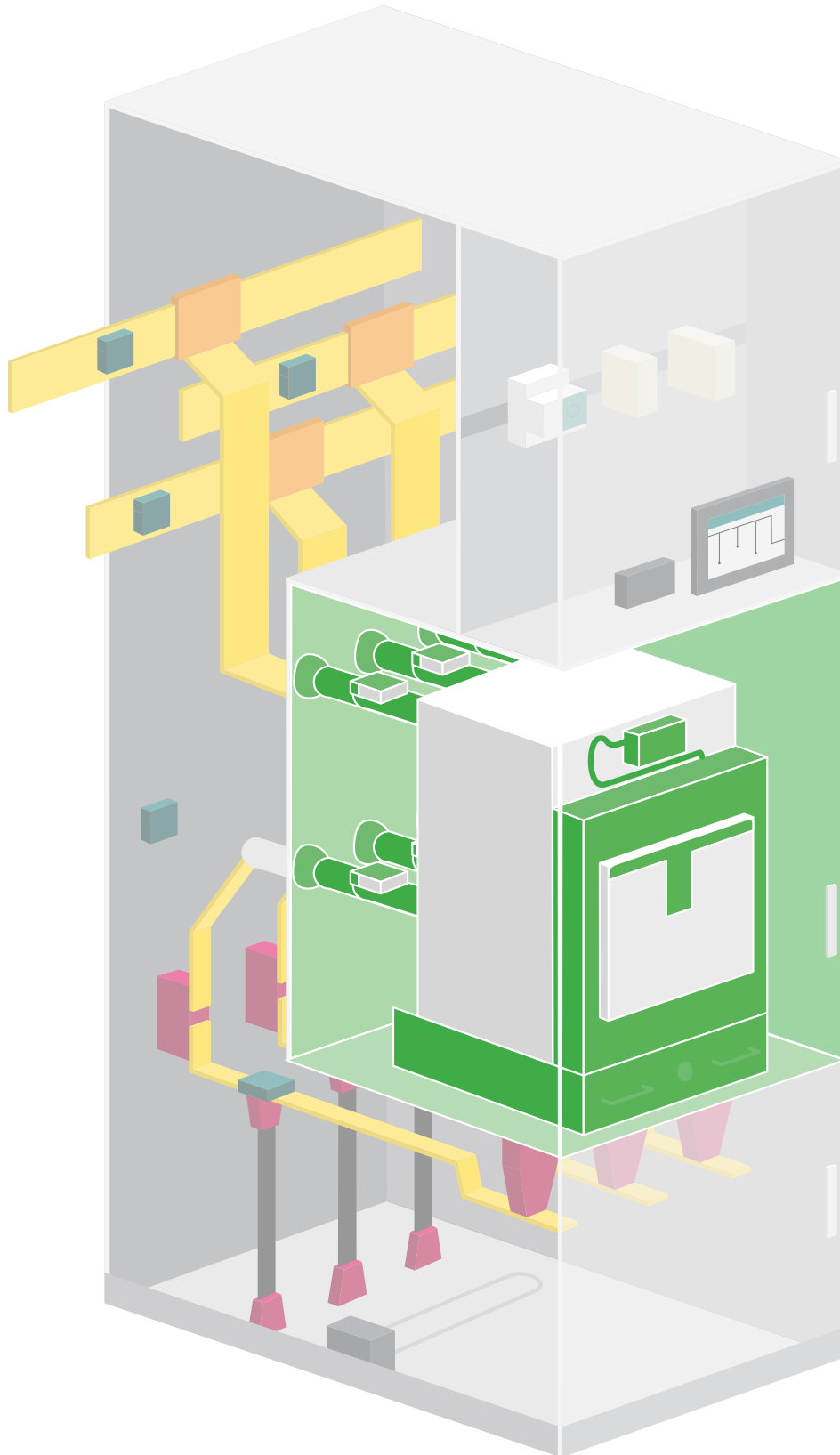




MCS eT

Schneider Electric





Medium Voltage Switching Devices

Medium Voltage Switching Devices

Circuit-Breakers	A-2
Contactors	A-6
Switches and Disconnectors	A-7
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Circuit-Breakers

Vacuum Circuit-Breakers


Protection and Operation of Network



	EvoPacT™ HVX 			EvoPacT ETL 
	 <small>PMT110584</small>			 <small>PMT110958</small> 
Rated voltage (kV)				
Max. rated short-circuit current	40 kA	40 kA	31.5 kA	25 kA
Max. rated current	4 000 A ⁽¹⁾	4 000 A ⁽¹⁾	3 150 A	1 250 A
Versions	<ul style="list-style-type: none"> • Fixed • Withdrawable 			<ul style="list-style-type: none"> • Disconnectable
Number of poles	3p			3p
Mechanical operations cycles (ON/OFF)	Up to 50 000	Up to 50 000	30 000	10 000
Mounting	Frontal			Lateral
Mechanism	Conventional spring			Conventional spring
Standards	<ul style="list-style-type: none"> • IEC • GB (Chinese) • ANSI 			<ul style="list-style-type: none"> • IEC • GB

Benefits

- Embedded pole for better dielectric and environmental pollution withstand
- Operate smarter with innovative technology
- Help reduce operational risk
- Built-in sustainability

• See video 

⁽¹⁾ Need forced cooling



Circuit-Breakers

Vacuum Circuit-Breakers

Protection and Operation of Network

	EasyPact EXE	EvoPact HVX Embedded pole	EvoPact HVX-O
	 <p>PM108877</p>	 <p>PM108084</p>	 <p>PM110584</p>
Rated voltage (kV)	 <p>12, 17.5</p>	 <p>12, 17.5, 24, 36⁽³⁾, 40.5⁽³⁾</p>	 <p>36</p>
Max. rated short-circuit current	31.5 kA, 31.5 kA	50 kA, 50 kA, 31.5 kA, 31.5 kA, 31.5 kA	31.5 kA
Max. rated current	2 500 A	3 150 A / 4 000 A ⁽¹⁾ , 2 500 A, 2 500 A / 3 150 A ⁽¹⁾	2 500 A
Versions	<ul style="list-style-type: none"> Fixed Withdrawable 	<ul style="list-style-type: none"> Fixed Withdrawable 	<ul style="list-style-type: none"> Fixed (Up to 1 250 A) Withdrawable
Number of poles	3p	3p	3p
Mechanical operations cycles (ON/OFF)	10 000	10 000	10 000
Mounting	Frontal	Frontal	Frontal
Mechanism	Conventional spring	Conventional spring	Conventional spring
Standards	<ul style="list-style-type: none"> IEC GOST 	<ul style="list-style-type: none"> IEC GB (Chinese) GOST⁽²⁾ 	IEC
Benefits	<ul style="list-style-type: none"> Kit and web ordering Better safety Opex optimization (thermal sensors) See video  	<ul style="list-style-type: none"> Embedded pole for better dielectric and environmental pollution withstand 	<ul style="list-style-type: none"> Assembled pole

⁽¹⁾ Need forced cooling
⁽²⁾ Only 36 kV and 40.5 kV

Circuit-Breakers

SF₆ Circuit-Breakers⁽¹⁾

Protection and Operation of Network



	EvoPact LF	EvoPact SF						
		EvoPact SF Lateral			EvoPact SF Frontal			
	 PM1109988	 PM1110000			 PM1109997			
Rated voltage (kV)	12	12	17.5	24	36	17.5	36 ⁽²⁾	40.5 ⁽²⁾
Max. rated short-circuit current	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	40 kA	31.5 kA
Max. rated current	3 150 A	1 250 A			1 250 A	3 150 A	2 500 A	
Versions	<ul style="list-style-type: none"> Fixed Withdrawable 	<ul style="list-style-type: none"> Fixed Withdrawable 			<ul style="list-style-type: none"> Fixed Withdrawable 			
Number of poles	3p	3p			3p			
Mechanical operations cycles (ON/OFF)	10 000	10 000			10 000			
Mounting	Frontal	Lateral			Frontal			
Mechanism	Conventional spring	Conventional spring			Conventional spring			
Standards	<ul style="list-style-type: none"> IEC GOST 	IEC			IEC			
Benefits								
	<ul style="list-style-type: none"> Referenced product for Nuclear Power plants Marine solutions certified Seismic version available 	<ul style="list-style-type: none"> Integrated VIP self-powered protection relay in SFset up to 24 kV Well suited for capacitor bank and inductive load applications 			<ul style="list-style-type: none"> Particularly adapted for high voltage ratings and harsh environment Well suited for capacitor bank and inductive load applications 			

⁽¹⁾ Regulations in several countries are progressively restricting the use of SF₆ gas in new medium-voltage equipment. We recommend verifying the regulations applicable in your country or the end-user's country. Alternative solutions, such as vacuum circuit breakers, are available in this catalog.

⁽²⁾ Withdrawable type is available for 36 kV and 40.5 kV ratings only.

Note: For SF₆-free solution, please explore the EvoPact range (see page A7).



Vacuum Circuit-Breaker

VAH



Function Protection for generator in power plants up to 130 MVA

Rated voltage
(kV)



Max. rated short-circuit current 63 kA 63 kA 63 kA

Max. rated current 5 000–8 000 A

Versions Fixed

Number of poles 3p

Mechanical operations cycles (ON/OFF) 10 000

Mounting Frontal

Mechanism Conventional spring

Standards

- IEC
- ANSI
- IEEE C37.013

Benefits

- Extremely robust design
- Optimized maintenance



Contactors







Vacuum and SF₆ Contactors

Protection and Control of Network



Vacuum Contactor

SF₆ Contactor

	CBX 		CVX 		Rollarc 	
						
Rated voltage (kV)	7.2	12	7.2	12	7.2	12
Max. rated short-circuit current	6 kA	4 kA	6 kA (50 kA in conjunction with fuses)	4 kA (50 kA in conjunction with fuses)	10 kA	8 kA
Max. rated current	400 A (AC4)	315 A (AC4)	400 A (AC4)	315 A (AC4)	400 A (AC4)	
Versions	<ul style="list-style-type: none"> Fixed 	<ul style="list-style-type: none"> Fixed 	<ul style="list-style-type: none"> Withdrawable version equipped with DIN or BS fuses Optional on board auxiliary voltage transformer 		<ul style="list-style-type: none"> Basic Fixed Withdrawable 	
Number of poles	1p–3p		3p	3p	3p	3p
Mechanical operations cycles (ON/OFF)	<ul style="list-style-type: none"> 300 000 (mechanical latch) 1 000 000 (magnetic held) 		<ul style="list-style-type: none"> 300 000 (mechanical latch) 1 000 000 (magnetic held) 		<ul style="list-style-type: none"> 100 000 (mechanical latch) 300 000 (magnetic held) 	
Mechanism	Magnetic holding or mechanical latch		Magnetic holding or mechanical latch		Magnetic holding or mechanical latch	
Standards	<ul style="list-style-type: none"> IEC GB (chinese) 		<ul style="list-style-type: none"> IEC GB 		IEC	
Benefits	<ul style="list-style-type: none"> Version available for capacitor banks: <ul style="list-style-type: none"> 1 pole version available for neutral Earthing Specific version available for capacitor banks 		<ul style="list-style-type: none"> LV supply thanks to optional on board VT High short circuit breaking capacity in combination with fuses Cradle available ⁽¹⁾ 		<ul style="list-style-type: none"> Reference product in SF₆ contactor market Nuclear powerplant and Marine applications Soft breaking, suited for capacitor bank, power transformers and motors applications 	

⁽¹⁾For cradle information, contact Schneider Electric.



Switches and Disconnectors

Indoor Load Break Switch and Disconnecter

SF₆-Free Switch and Disconnecter

SF₆ Switch and Disconnecter

AirPacT

LBSkit



PM1109061



PE66373



Function

Indoor load break switch, disconnector and accessories

Rated voltage
(kV)

24

24

36

Max. rated short-circuit current

25 kA/1 s

25 kA/1 s

25 kA/1s

Max. rated current

1 250 A

1 250 A

1 250 A

Pole center distance

200 mm

200 mm

350 mm

Mechanical operations cycles (ON/OFF)

5 000 O/C cycles (Class M2)

1 000 O/C cycles (Class M1)

Switch 3 position

Yes

Yes

Insulating medium

Pure Air

SF₆

Switching medium

Vacuum with SVI™⁽¹⁾

SF₆

Standards

- IEC
- In accordance with EU 2024/573 – F-gas Regulation

IEC

Benefits

- Sealed for life
- Reduced maintenance
- Easy and flexible integration

- Sealed for life
- Reduced maintenance





- See video



⁽¹⁾SVI™: Shunt Vacuum Interruption patented technology of Schneider Electric

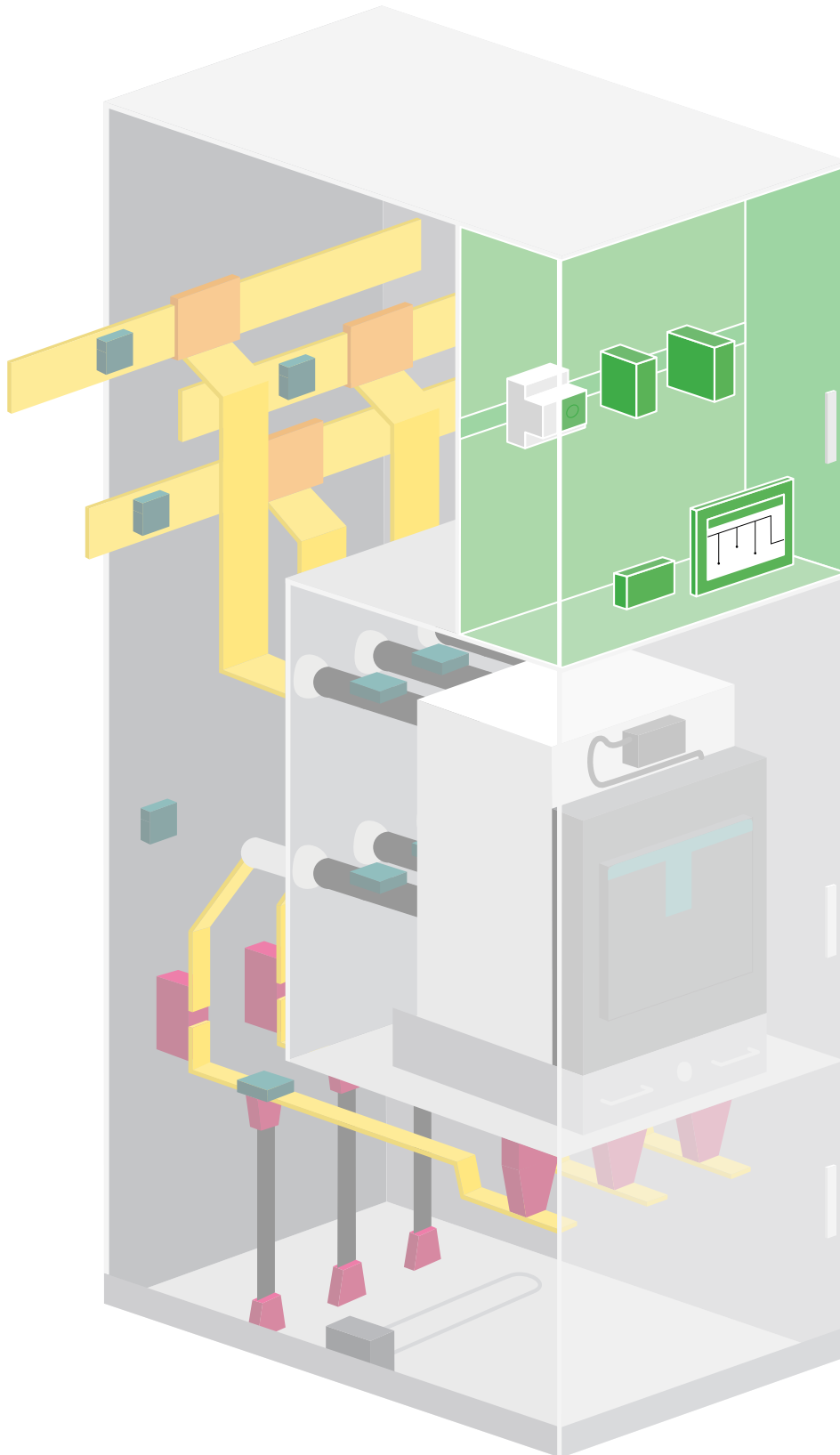




	L-Frame Cradle	MC Cassette
		
Function	Integration of switching device	Integration of switching device
Rated voltage (kV)	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #2e8b57; color: white; padding: 5px;">12</div> <div style="background-color: #ff8c00; color: white; padding: 5px;">17.5</div> <div style="background-color: #2e8b57; color: white; padding: 5px;">24</div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #808080; color: white; padding: 5px;">7.2</div> <div style="background-color: #2e8b57; color: white; padding: 5px;">12</div> <div style="background-color: #ff8c00; color: white; padding: 5px;">17.5</div> </div>
Max. rated short-circuit current	40 kA 31.5 kA	50 kA
Max. rated current	3 150 A 2 500 A	3 150 A
Recommended cubicle width	650–1 000 mm 800–1 000 mm	570–900 mm
Integration of switching device	EvoPacT HVX Embedded Pole + EasyPact EXE 	EvoPact LF + EasyPact EXE 
Version	With and without earthing switch	With earthing switch in option
Benefits	Fully assembled by Schneider Electric	Full type tested solution including internal arc protection with MV door







Protection, Metering and Distribution Automation



Protection, Metering and Distribution Automation

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Energy Management and Control	B-15
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Empower your Panel Building Projects with, Enhanced Quality, Reliability, Safety, and Control

Explore our Protection and Control portfolio, which includes protection relays, arc flash devices, remote terminal units (RTUs) and substation controllers. These mission-critical solutions help protect assets by detecting and isolating faults to ensure best-in-class service continuity. They also facilitate the advanced monitoring and automation of electrical networks.

The table below shows the global positioning of our Protection and Control portfolio. Please note that regional or country-specific variations may occur due to different market requirements or regulatory conditions.

		PROTECTION RELAYS	ARC FLASH DEVICES	SUBSTATION CONTROLLERS & RTUs
HV	Utilities-Transmission (66kV and Above)	Easergy P30/P40	PowerLogic A3	EasyLogic T150
	Utilities- Distribution (33kV and Below)	PowerLogic P3, PowerLogic P5, PowerLogic P7, VIP	PowerLogic A5	PowerLogic T500, PowerLogic T300
MV	Utilities- Generation (Gas Turbine, Generator)	Easergy P30/P40, PowerLogic P7	PowerLogic A1, PowerLogic A3	EasyLogic T150, PowerLogic T500
	Renewables (Photovoltaic, Wind...)	PowerLogic P3, PowerLogic P5	PowerLogic A1, PowerLogic A3	EasyLogic T150, PowerLogic T500
	Heavy Industry (Oil and Gas, Mining, Minerals, and Metals)	Easergy P30/P40, PowerLogic P7, PowerLogic P5	PowerLogic A3, PowerLogic A5	EasyLogic T150, PowerLogic T500
	Industry (Others)	PowerLogic P3, PowerLogic P5	PowerLogic A1, PowerLogic A3	EasyLogic T150, PowerLogic T500
	Building critical (Data center)	Easergy P30/P40, PowerLogic P7, PowerLogic P5, PowerLogic P3	PowerLogic A1, PowerLogic A3	PowerLogic T300, PowerLogic T500
	Building non-critical (Commercial, Tertiary...)	PowerLogic P1, VIP	PowerLogic A1, PowerLogic A3	EasyLogic T150

Protection Relays

VIP and PowerLogic P1 Ranges





		Self-Powered Protection Relay VIP40/45 VIP400/410	PowerLogic P1 P1F/P1V
		 PM100511	 PM107253
Application			
Feeder	Phase and earth-fault	●	●
	With directional	-	-
	With line differential	-	●
	With distance	-	-
Voltage	Voltage and frequency	-	●
	Phase and earth-fault	●	●
Transformer	With transformer differential	-	-
	Phase and earth-fault	-	⁽¹⁾
Motor	With voltage	-	-
	With machine differential	-	-
	Phase and earth-fault	-	-
Generator	With directional	-	-
	With machine differential	-	-
	Phase and earth-fault	-	-
Busbar	With busbar differential	-	-
Capacitor bank		-	-
Front port		-	USB type B
Sensors		VIP 40/45/400: LPCT VIP 410: LPCT, Core Balance CT (CSH)	CT (1 or 5 A) or LPCT VT
Display		VIP 40/45: 4 digits display VIP 400/410: Graphical LCD	Graphical LCD • 32 characters divided in 2 lines
Other characteristics		VIP 40/45/400: Self-powered VIP 410: Dual powered with 24 to 125 Vdc/100 to 120 Vac or 110 to 250 Vdc/100 to 240 Vac Dimensions: VIP 40/45: 180 x 140 x 31 mm/7.09 x 5.51 x 1.22 in VIP 400/410: 180 x 140 x 105 mm/7.09 x 5.51 x 4.13 in	Dimensions: 116 × 116 × 108 mm/4.57 x 4.57 x 4.25 in Fits in 100 mm depth LV compartment using rising frame REL 15043
Input/Output		VIP 40/45/400: 0/1 (Mitop) VIP 410: 1/4 (1 for Mitop)	8/6
I/O terminals		Screw type	Screw type
Communication protocol		VIP 410 with power supply: Modbus RTU- RS485 (plug and play with T300)	<ul style="list-style-type: none"> • Modbus RTU • IEC 60870-5-103 • Modbus PO (EcoStruxure Power Operations)
Ambient temperature, in operation		-40°C to 70°C (-40°F to 158°F)	• -25°C to 70°C (-13°F to +158°F)
Standards		IEC, EAC, UKCA	IEC, EAC, UKCA

⁽¹⁾ Will be implemented in Future PowerLogic P1M.

Protection Relays

PowerLogic P3 Range



	PowerLogic P3 Standard 		PowerLogic P3 Advanced 		
					
PowerLogic P3 contains Two main devices, each with specific functions to address your needs in a one-box design, regardless of application.					
Application					
Feeder			P3F30 with directional P3L30 with differential	-	
Transformer	P3U20 with O/C with directional E/F	P3U30 with directional O/C with voltage protection	-	P3T32 with differential	
Motor			P3M30	P3M32 with differential	
Generator			P3G30	P3G32 with differential	
Characteristics					
Phase current	1/5 A CT or LPCT (x3) ⁽¹⁾		1/5 A CT	1/5 A CT (x6)	
Measuring inputs	Residual current	1/5 A CT or 0.2/1 A CT or CSH 2 A/20 A	(1/5 A+0.2/1 A) CT (1/5 A + CSH 2/20 A)	2 x (1/5 A+0.2/1 A) CT, 1 x (1/5 A) CT	
	Voltage	VT (x1) VT (x4) or LPVT (x4) ⁽²⁾	VT (x4)	VT (x4)	
Arc-flash sensor input	-		Loop sensor: 1 Point sensor: 2, 4 or 6 ⁽³⁾	Loop sensor: 1 Point sensor: 2, 4 or 6 ⁽³⁾	
Digital	Input	8/10 14/16	6 to 36	6 to 16	
	Output	5/8 + SF 11/8 + SF	10 to 21 + SF	10 to 13 + SF	
Analogue	Input	0 or 4 ⁽⁴⁾	0 or 4 ⁽⁴⁾		
	Output	0 or 4 ⁽⁴⁾	0 or 4 ⁽⁴⁾		
Temperature sensor input	0 or 8 or 12 ⁽⁴⁾		0 or 8 or 12 ⁽⁴⁾		
Front port	USB type B		USB type B		
Nominal power supply	24 Vdc or 24–48 Vdc or 48–240 Vdc/Vac (39–265 Vdc/Vac) ⁽⁵⁾		24–48 Vdc or 110–240 Vdc/Vac (88–265 Vdc/Vac)		
Ambient temperature, in operation	-40 to 60°C (-40 to 140°F)		-40 to 60°C (-40 to 140°F)		
Communication					
Rear ports	RS232, IRIG/B, RS485, Ethernet		RS232, IRIG/B, RS485, Ethernet		
Protocols	IEC61850 ed1 and ed2	IEC 60870-5-101 and 103 and 104	DNP3 over Ethernet	DNP3 serial	
	Modbus serial	Modbus over Ethernet	Ethernet IP ⁽⁵⁾	Profibus DP	
	SPABus	Redundancy protocols (RSTP/PRP)			
	Others				
	Control	4 objects 4 display	4 objects 8 display	8 objects 3-8 display	
	Logic (Matrix + Logic equation)	●		●	
	Withdrawable CT connector with shorting	●		-	
	Remote HMI	-		●	
Hardware dimensions (W/H/D)	171 x 176 x 214 ⁽⁶⁾ mm/6.73 x 6.93 x 8.43 in		264 x 177 x 208 mm/10.39 x 6.97 x 8.19 in		

⁽¹⁾ P3U30 relay only. Consult Schneider Electric for other models

⁽²⁾ Depends on optional module

⁽³⁾ P3L30 can have 1 loop or 2 point sensors only

⁽⁴⁾ Check the available power supply range from the device's serial number label

⁽⁵⁾ For details and availability, contact Schneider Electric.



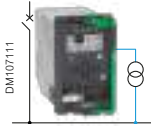
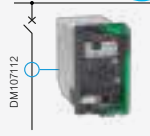
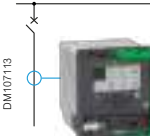
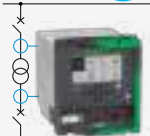
⁽⁶⁾ 226 mm (8.90 in) with ring-lug connectors

Note: Watchdog: Internal function; SF relay: Output signal/contact.



Protection Relays

PowerLogic P5 Range

		PowerLogic P5x20 		PowerLogic P5x30 	
<p>PowerLogic P5 contains two main devices, each with specific functions to address your needs in a one-box design, regardless of application.</p>					
Application					
Voltage		P5V20	-	-	-
Feeder			P5U20 with directional in LPCT/LPVT version	P5F30 with directional	-
Transformer		-		-	P5T30
Motor				P5M30 with directional	-
Line		-	-	P5L30 with directional	-
Characteristics					
Measuring inputs	Phase current	-	1/5 A CT (x3) or LPCT (x3) ⁽¹⁾	1/5 A CT (x3) or LPCT (x3)	1/5 A CT (x6)
	Residual current	-	1/5 A CT and 1A CT or CSH core balance CT	1/5A CT and 1A CT or CSH core balance CT	1/5A CT (x2)
	Voltage	VT (x4)	LPVT (x4) ⁽¹⁾	VT (x4) or LPVT (x4)	VT (x1)
Arc-flash sensor inputs			-	0 to 6 point sensors	
Digital	Inputs		4 to 16	4 to 40	
	Outputs		3 to 8 + Watchdog	3 to 18 + Watchdog	
Temperature sensor input		-	0 to 16 (external modules)	0 to 16 (external modules)	
Analogue inputs/outputs			0 to 12/12 (external modules)	0 to 12/12 (external modules)	
Front ports			1 USB for configuration 1 USB for USB key	1 USB for configuration 1 USB for USB key	
Power supply			24–250 Vdc; 100–230 Vac	24 – 48 Vdc or 48–250 Vdc; 100–230 Vac	
Ambient temperature, in service			-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)	
Communication					
Hardware modules	Extension ⁽²⁾ + Backup memory		●	●	
	Serial		●	●	
	Ethernet		●	●	
	2nd Ethernet or InterRelay		-	●	
Protocols	IEC 61850 Ed.1 and Ed.2		●	●	
	IEC 60870-5-103 and 101		●	●	
	DNP3 Ethernet		●	●	
	DNP3 serial		●	●	
	Modbus Ethernet		●	●	
	Modbus serial		●	●	
	EtherNet IP		●	●	
Redundancy protocols	RSTP		●	●	
	PRP / HSR		●	●	
Wireless protocols	ZigBee 2.4 GHz (IEEE 802.15.4)		●	●	
	Green Power		●	●	
Time synchronization	Pulse, IRIG-B ⁽³⁾		●	●	
	SNTP, PTP IEEE 1588 v2 ⁽⁴⁾		●	●	
Others					
Control			8 controlled objects Mimic	8 controlled objects Mimic	
Logic (Matrix + Programmable logic)			●	●	
Optional Advanced Logic Engine (order option)			●	●	
Cybersecurity (settable)			Basic or Advanced	Basic or Advanced	
Draw-out device (withdrawability)			●	●	
Hardware dimensions (W/H/D)			102 / 176 / 219 mm 4.01 / 6.93 / 8.62 in	152 / 176 / 219 mm 6.0 / 6.93 / 8.62 in	

⁽¹⁾ In case P5U20 is chosen for cooperation with low power sensors, it contains LPCT (x3) and LPVT (x4) channels

⁽²⁾ For connection of RTD module and IRIG-B module

⁽³⁾ IRIG-B module is a separate accessory

⁽⁴⁾ PTP IEEE 1588 v2 is available with HSR/PRP communication board

Protection Relays

PowerLogic P7 Range



PowerLogic P7

PowerLogic™ P7 provides specific functions to address your needs in a one-box design, regardless of application.



PM111581

Application

Feeder	•	Line Differential	•
Motor	•	Busbar	•
Generator	•	Stand-Alone Merging Unit (SAMU)	•
Transformer	•	Bay Controller	•

Characteristics

Measuring inputs	Current	5CT (1/5A) or 6CT (1/5A per analogue module, max. 3 modules)
	Core balance current	1CT (1A) core balanced (5CT module incl.)
	Voltage	4VT or 3VT per analogue module (max. 3 modules)
Digital	Inputs	8 to 104 (40TE)
	Outputs	8 to 36 (40TE) + Watchdog (WD)
	HSHB outputs	0 to 6
Temperature sensor input		0 to 16 (external module)
Current loop input and output (4-20 mA)		0 to 4 (external module)
Front ports		1 mini-USB for configuration
Power supply		24 to 34 Vdc; 48 to 125 Vdc; 110 to 250 Vdc/Vac
Ambient temperature, in service		-40 to 85 °C (-40 to 185 °F)

Communication

DHMI port (wall mounting only)		Optional
Rear Ports	Serial	•
	Ethernet	•
	Redundant Ethernet	Optional SFP modules
Protocols	DNP3 Ethernet ⁽¹⁾	•
	DNP3 serial ⁽¹⁾	•
	Modbus Ethernet ⁽¹⁾	•
	Modbus serial ⁽¹⁾	•
	IEC 60870-5-103 ⁽¹⁾	•
	IEC 61850 Ed2.1	•
	IEC 61850-9-2 LE	•
	IEC 61869-9	•
Redundancy protocols	RSTP	•
	PRP / HSR	•
	Failover	•
Time synchronization	IRIG-B ⁽²⁾ , Protocol	•
	SNTP, PTP IEEE 1588	•

Others

Control		Mimic, Up to 4 CBs and 20 switches depending on the chosen application
Logic (Matrix Programmable + Logic Equations)		•
Cybersecurity according IEC 62443		Security Level 2
Modular hardware (board withdrawability)		•
Mounting variants	Flush	•
	Rack ⁽³⁾	•
	Wall mounting with detachable HMI (DHMI) support	•

⁽¹⁾ Not supported for P7S (SAMU)





⁽²⁾ IRIG-B module is a separate accessory

⁽³⁾ Rack mounting frame is a separate accessory (REL70067)



Protection Relays

Easergy MiCOM Range

		Easergy MiCOM P30 	Easergy MiCOM P40 
		 PM106873	 8257088
Application			
Feeder	Phase and earth-fault	•	•
	With directional	•	•
	With line differential	•	•
	With distance	•	•
Voltage	Voltage and frequency	•	•
	Phase and earth-fault	•	•
Transformer	With transformer differential	•	•
	Phase and earth-fault	•	•
Motor	With voltage	•	•
	With machine differential	-	•
	Phase and earth-fault	-	•
Generator	With directional	-	•
	With machine differential	-	•
	Phase and earth-fault	-	•
Busbar	With busbar differential	-	•
Capacitor bank		-	-
Sensors		<ul style="list-style-type: none"> • CT (1 or 5 A) • VT 	<ul style="list-style-type: none"> • CT (1 or 5 A) • VT
Display		<ul style="list-style-type: none"> • Large color LCD type display with single-line diagram (mimic) • Remote UMI 	<ul style="list-style-type: none"> • Standard UMI
Other characteristics		<ul style="list-style-type: none"> • Multifunction; integrated Bay controller • High firmware/hardware variability 	<ul style="list-style-type: none"> • Multifunction • High firmware/hardware variability
Input/Output		80/45	64/60
I/O terminals		<ul style="list-style-type: none"> • Screw type • Ring lug 	Ring lug
Temp. sensors		10	10
Communication protocol		<ul style="list-style-type: none"> • Modbus RTU • IEC 60870-5-101/103 • DNP3 • IEC 61850 with GOOSE • RSTP • PRP / HSR / DUAL-IP • IEC 6870-5-104 	<ul style="list-style-type: none"> • Modbus RTU • IEC 60870-5-103 • DNP3 serial/DNP3oE • IEC 61850 with GOOSE • RSTP/SHP/DHP • HSR/PRP • Process Bus
Logic equations		Comprehensive logic equations	Comprehensive logic equations
Standards		<ul style="list-style-type: none"> • Cyber security • IEC, EAC, ATEX 	<ul style="list-style-type: none"> • Cyber security (IEC 62351) • IEC, UL, CSA, EAC, ATEX



Protection Relays

Easergy VD23



Easergy VD23



PM106571

Functions

- Indicates presence or absence of voltage through 1 or 2 relays
- For MV networks from 3 kV to 36 kV
- Associated with VPIS-VO V2 (see next page)

Technical specifications

- Self-adapted to network voltage
- Displays the voltage in % of nominal
- Output contacts behaviour configurable according to various combinations of phase and unbalance voltage status
- DIN format
- Allows to address various applications:
 - Automatic transfer systems
 - Alarms on voltage loss
 - Automation on voltage loss
 - Earth locking on voltage presence
 - Alarms on voltage presence

Reference numbers

- Voltage detection relay (VD23): ref. EMS58421
- Combined voltage presence relay + Fault Passage Indicator (Flair 23DM): ref. EMS58355

Standards

IEC





Benefits

- Fits all MV network neutral systems
- Compact (DIN format)
- Output contact behavior highly configurable according to application needs



Arc Fault Detection and Protection

PowerLogic Arc Protection Range

<p>The arc protection unit detects an arc flash in an installation and trips the feeding breaker. An arc flash protection maximizes personnel safety and minimizes material damage caused by arc faults.</p>	<p>Arc V121</p>  <p>PM1105563</p>	<p>PowerLogic A1</p>  <p>PM110955</p>
<p>System features</p>	<ul style="list-style-type: none"> • Operation on light only • Up to 10 sensors arc or smoke sensors • Single trip contact • Straight-forward installation • Typical operation time 9 ms (including the output relay) • Cost efficient solution • Self-supervision • Binary input for blocking or resetting (programmable) the unit • Possibility for double arc channel activation trip criteria • BIO light transfer possibility to other Vamp device 	<p>Stand-alone arc flash protection light detection for typical configurations:</p> <ul style="list-style-type: none"> • 4 Arc inputs (point sensors) • Integrated 24 to 230 Vac/Vdc power supply • High speed trip output (1 to 2 ms operation time) • 1 self supervision output • D-rail or flush mounting • Master trip I/O to transfer trip order to another A125. Allows more selectivity • Direct installation with basic commissioning • Front status LEDs • Add current condition when associated to VAM4C
<p>Sensors</p>		
<p>Point sensor - Surface</p>	<ul style="list-style-type: none"> • Arc detection from compartments • Self-monitored • 6 m and 20 m cable lengths available 	<ul style="list-style-type: none"> • Arc detection from compartments • Self-monitored • 6 m and 20 m cable lengths available • Shielded or not shielded
<p>Point sensor - pipe</p>	<ul style="list-style-type: none"> • Arc detection from compartments • Self-monitored • 6 m and 20 m cable lengths available • Shielded or not shielded 	
<p>Loop sensor (fibre)</p>	<p>VA 1DA</p>  <p>PM111583</p>	<p>VA 1EH</p>  <p>PM111584</p>
<p>Standards</p>	<p>IEC</p>	<p>IEC/UL</p>
<p>Benefits</p>		
<ul style="list-style-type: none"> • Personnel safety • Helps reduce production loss • Extended switchgear life cycle • Helps reduced insurance costs • Low investment costs and fast installation • Helps secure operation 		



Arc Fault Detection and Protection

PowerLogic Arc Protection Range



PowerLogic A3	PowerLogic A5
	
<p>Stand-alone and small system arc flash protection light detection for typical configurations supported by 4 commercial references:</p> <ul style="list-style-type: none"> • A3-F6P and A3-F12P operate in stand alone mode • A3-S6P and A3-S12P are operating as auxiliaries to A3-Fxx devices • 6 or 12 Arc inputs (point sensors) • Integrated 24 to 230 Vac/Vdc power supply • A3-Sxx have POE power supply by A3-Fxx • High speed trip output (1 to 2 ms operation time) • 1 self supervision output • D-rail or flush mounting • High speed bus to support selective protection between devices • Direct installation with basic comissioning • Front status LEDs 	<ul style="list-style-type: none"> • Three phase current, zero sequence voltage and current • Event logs, disturbance recording and real time clock • Operation on simultaneous current and light or light only • Informative display LCD (single line diagram) • Up to four fast trip contacts • Direct light sensors and fiber optic up • Support up to 170 arc flash point sensors (with VAM I/O and A3 units) • One normally open and one change over alarm contact • Typical operation time: less than 7 ms (including the output relay) • Optionally 2 ms typical operation time when semi-conductor outputs are used • Programmable operation zones • Continuous system self supervision • PC configurable • Communication ports supporting a wide range of communication protocols which are intended for a SCADA interface • Multiple configurable DI and DO • AEM Bus (Arc Extension Modules) to connect to PowerLogic A3 range
<ul style="list-style-type: none"> • Arc detection from compartments • Self-monitored • 6 m and 20 m cable lengths available, shielded or not shielded 	<ul style="list-style-type: none"> • Arc detection from compartments • Self-monitored • 6 m and 20 m cable lengths available • Shielded or not shielded
<ul style="list-style-type: none"> • Arc detection from compartments • Self-monitored • 6 m and 20 m cable lengths available, shielded or not shielded 	<ul style="list-style-type: none"> • Arc detection from compartments • Self-monitored • 6 m and 20 m cable lengths available • Shielded or not shielded
<p>SLM</p> 	<ul style="list-style-type: none"> • Monitors various compartments • Small bending radius for easy installation • Shielded or not shielded
IEC/UL	IEC

- Helps personnel safety
- Helps reduces production loss
- Large scale installation like substation
- Helps reduced insurance costs
- Low investment costs and fast installation
- Helps secure operation

Note: The choice is to be made according to the needs of type and number of sensors. Please contact us.



MV-LV Substation Remote Control and Monitoring

EasyLogic T150 Range

EasyLogic T150 RTU

EasyLogic™ T150 RTU provides a flexible platform for the most common substation control applications with a modular design.



Traditional RTU: I/O to SCADA/DCS

•

Flexible Logic programming: IEC 61131/IEC 61499

•

Data concentrator

•

Protocol converter

•

Substation Gateway

•

Lightweight substation HMI

•

Characteristics

I/O modules	Digital Inputs	16 per AB_DI or AB_DIDO module
	Digital outputs	8 per AB_DI or AB_DIDO module
	Analog inputs (DC)	8 per AB_AI module
	Analog outputs (DC)	4 per AB_AO module
	Timestamping resolution	1 millisecond
	Galvanic isolation Embedded	Embedded
	Max. Total I/O modules	32
Power supply		24 to 48 Vdc
Ambient temperature, in service		-40 to 70 °C (-40 to 158 °F)

Communication

Serial ports	Embedded in Head Unit	2x RS232 + 1x RS485 ports
	Expansion	Upto 16 additional RS232/485 ports (4x AB_SER modules)
Ethernet ports	LAN ports (10/100 Mbps)	2x interfaces (HSR/PRP capable) - RJ45 or SFP options
	MNT port (10/100 Mbps)	1x RJ45
Protocols	DNP3 IP	client and server
	DNP3 Serial	client and server
	Modbus/TCP	client and server
	Modbus serial	client and server
	Spabus	client
	IEC 60870-101	client and server
	IEC 60870-103	client
	IEC 60870-104	client and server
	IEC 61850 ed1.0	client
	IEC 61850 ed2.0	client and server
Time synchronization	IRIG-B , telecontrol protocol	-
	SNTP, IEEE 1588 (PTP)	client and server

Others

Max. Datapoints		250,000
Cybersecurity services		RBAC, logging, secured access
Hot-swappable hardware modules		-
Mounting variants	DIN-rail mounting	-



MV-LV Substation Remote Control and Monitoring

PowerLogic T300 Range

Advanced Supervision and Control of Medium Voltage and Low Voltage Distribution System

PowerLogic T300: A modular RTU solution for any kind of applications



PM104388



Developed according to IEC 62443-4-2, PowerLogic T300 has been designed with a cyber security package. This shall help reduce exposure to cyber threats and improved operational security. It includes important features such as password management, firmware signature, port hardening, and secured communication compliant to the latest international standards.

Main functions

MV network remote control of UG and OH equipment : Fault Location Isolation system and restoration for all neutral system - centralized and decentralized network management

- LV switchboard monitoring
- Voltvar optimisation support
- MV and LV power and quality measurement
- Thermal monitoring and asset management

Protocols

- IEC 60870-5-101/104 controlled and controlling station (standard and secure)
- DNP3 serial and TCP outstation and master station
- Modbus serial and TCP server and client (standard and secure)
- IEC 61850 server and client

Communication system

- Two flexible communication ports accommodated with modem boxes:
 - RS232/RS485 modem box for WAN or LAN communication
 - ZigBee modem
 - 4G European standard modem box with GPS clocks for accurate time synchronization
- Two Ethernet ports (for WAN and LAN communication)
 - 1 Ethernet port for WAN communication
 - 1 Ethernet port for LAN communication with third party devices
- 1 serial RS232/RS485 for Modbus LAN communication
- Helps to secure WiFi for local connection as option

Standards

IEC, UL

Benefits

- PowerLogic T300 address the follow customer challenges:
 - Evolve with the grid: manage bidirectional and intermittent power flow
 - Increase availability: improve SAIDI and optimise MV networks
 - Maintain power quality
 - Manage the costs: reduce installation, operation and maintenance expenditures
 - Deliver efficiency: optimise network to manage growing consumption
 - Improve Cybersecurity: help defend against malicious software and unauthorised access
- PowerLogic T300 is a modular FRTU platform, hardware, firmware. Modular approach helps to ensure T300 will be configurable to your exact needs e.g. packaged solutions, embedded solutions, open solutions
- This open architecture supports different applications, from a single communication gateway to large substation management
- Built-in web server for commissioning and maintenance with local and remote access, compatible with PC, tablet and smartphone devices
- High availability back up power supplies range PS100/50/25 for control and monitoring applications



MV-LV Substation Remote Control and Monitoring

PowerLogic T300 Range

PowerLogic HU250 Head unit Communication - Gateway



PowerLogic SC150 MV Switch Controller



Functions

- Flexible communication to control centre and other customers' IT applications
- Open peer-to-peer communication for self-healing applications⁽¹⁾
- Open to third-party devices with many protocol capabilities
- Embedded IEC 601131-3 PLC for automation design
- Cyber security management: Compliance to the security standards/regulations (IEC 62351/IEEE 1686)
- Configurable Sequence of Events (SOE) for data logs
- Software integrity with firmware signature on all modules:
 - Secure communication between PowerLogic T300 and associated webserver tool with local or remote connections using HTTPS, SSH, SFTP, and TLS
 - User identification and authentication according to IEC 62351-8
 - User access management according to IEC 62351-5
 - Communication authentication according to IEC62351-5 when using DNP3 and IEC60870-5-104 protocols
 - Port hardening management
 - IP communication filter
 - Security events log storage and transmission according to Syslog protocol
- Control and monitoring of all switchgear types
- Advanced Fault Passage Indicator (FPI) algorithms:
 - Phase-phase and phase-ground detection ANSI 50/51, 50N/51N
 - Directional phase-phase and phase-ground detection ANSI 67/67N
 - Broken conductor detection (one phase lost) ANSI 47
- MV Voltage monitoring ANSI 27, 59, 59N
- MV Current monitoring ANSI 37
- Directional active overpower detection ANSI 32P
- Large current and voltage measurement capabilities: standard CT for current, LPVT, VT and from capacitor divider and voltage presence indicator (VDS, VPIS) for voltage
- Power measurement according to IEC 61557-12
- Power quality according to IEC 61000-4-30 class S
- Specific application automation: sectionalizer
- Disturbance recording

⁽¹⁾ For details and availability, contact Schneider Electric.

PowerLogic LV150 Transformer and LV Monitoring



PowerLogic SC160 Switchgear Controller



Functions

- Current and voltage measurements according to IEC 61557-12
 - Broken conductor detection 47BC
 - Power quality according to IEC 61000-4-30, Class S
 - Transformer temperature monitoring
- PowerLogic SC160 is a modular switchgear controller configurable as protection with Circuit Breaker (CB) use or Fault current indicator with Load Break Switch (LBS) use.
- Control and monitoring of all switchgear types
 - Protection or fault passage indication function:
 - Phase overcurrent (ANSI 50/51)
 - Ground/earth fault overcurrent (ANSI 50N/51N)
 - Directional phase overcurrent fault (ANSI 67)
 - Directional ground/earth fault overcurrent (ANSI 67N)
 - Cold load pickup
 - Inrush restraint



MV-LV Substation Remote Control and Monitoring

PowerLogic T300 Range

PowerLogic PS50 Monitoring



Functions

The PowerLogic PS50 power supplies, associated with a backup battery, are designed to maintain control and monitoring of the entire MV substation during long power supply interruptions (up to 48 hours). They are designed to supply:

- MV switchgear motor mechanism and circuit-breaker coils
- Transmission equipment (e.g. radio)
- Electronic modules of T300
- All other devices in MV/LV substations (Protection relays, Fault Passage Indicators or others IEDs, low voltage breakers, PLC concentrators, etc.)

Power supply outputs

- 12 Vdc, 18 W permanent for telecom equipment
- 12 Vdc, 36 W permanent for IEDs
- 48 Vdc or 24 Vdc 10 W permanent (for protection relays, electronic devices, etc.) and 300 W/1min (for switchgear operating mechanism motors)

Protocols

Modbus RS485

Standards

IEC 60255-5 (10 kV level)

Benefits

- High availability due to the separate voltage output for IEDs, telecom and motor
- High efficiency and high energy backup autonomy
- Designed for severe environment with higher insulation (10 kV)
- Easy maintenance with only one battery, 24 Ah or 38 Ah robust life span (> 10 years)
- Modbus communication for battery monitoring to allow optimised maintenance operations
- Battery charging and monitoring for longer battery life
- Battery end-of-life monitoring and anticipated maintenance
- Designed for long outage time

Energy Management and Control

Basic and Advanced Meters

Basic Energy Meters

Basic Panel Meters

Advanced Meters

	IEM3200 series	PM5100/5300/ PM5500/5600/5700	PM8000
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PB115488



PB111776



PB113653

Function	IEM3200 series	PM5100/5300/ PM5500/5600/5700	PM8000
	<p>kW/h meters</p> <ul style="list-style-type: none"> • IEC 62053-22 Class 0.5S • IEC 62053-21 Class 1 • IEC 62053-23 Class 2 • IEC 61557-12 • EN 50470-1/3 	<p>Metering and sub-metering</p> <ul style="list-style-type: none"> • IEC 62053-22 Class 0.5S • IEC 62053-22 Class 0.2S (PM55xx) • IEC 62053-23 Class 2 • IEC 61557-12 • EN 50470-1/3 • ANSI C12.20 Class 0.2 and 0.5 	<p>Energy and intermediate power quality meter</p> <ul style="list-style-type: none"> • IEC 61557-12 • IEC 62053-22 Class 0.2S • IEC 61000-4-30 Class A • IEC 62856-1 • ANSI C12.20 Class 0.2 • PMD /Sx/K70/0.2

Applications

Panel instrumentation	IEM3200 series	PM5100/5300/ PM5500/5600/5700	PM8000
	I, U, F, P, Q, S, PF, E alarm, I/O, enegy	I, U, F, P, Q, S, PF, E min/max, harm., alarm, I/O (I, U, unbalance, demand, clock/cal)	I, U, F, P, Q, S, PF, E, THD min/max, harm., alarm, I/O (I, U, unbalance, demand, clock/cal)

Energy efficiency and cost

Sub-billing and cost allocation	IEM3200 series	PM5100/5300/ PM5500/5600/5700	PM8000
	•	•	•
Demand and load management	-	-	•
Billing analysis	-	-	•

Power availability and reliability

Harmonics	IEM3200 series	PM5100/5300/ PM5500/5600/5700	PM8000
	-	•	•
Dip/swell, transient	-	-	•
Compliance monitoring	-	-	•

Revenue metering




Characteristics

Measurement accuracy (active energy)	IEM3200 series	PM5100/5300/ PM5500/5600/5700	PM8000
	• Class 0.5S/Class 1	• Class 0.2S (PM55xx) • Class 0.5S	• IEC 62053-22 Class 0.2S • ANSI 12.20 Class 0.2S
Installation	• DIN rail 5 or 7 x 18 mm modules	• Flush mounted 96 x 96 mm. Remode display option in PM55xx	• Flush and DIN rail mounted 96 x 96 mm
Voltage measurement	• 50 V to 330 V (Ph-N) • 80 V to 570 V (Ph-Ph) • Up to 1 MVac (ext VT)	• 20V L-N/35V L-L to 400V L-N/ 690V L-L • Up to 1 MVac (ext VT)	• 57-400 Vac L-N 3P (100-690 Vac L-L)
Current measurement	• External CT	• External CT	• External CT
Communication ports	• Modbus serial • BACnet IP • M-bus • LON works	• Modbus serial • Modbus TCP/IP • Ethernet IP • BACnet IP • DNP 3.0	• Modbus RTU • Modbus TCP • ION • DNP 3.0 • HTTPS • SFTP
Inputs/Outputs	• 2 I/O	• 4 I/O, Relay Option • 6 I/O (PM55xx)	• Up to 27 DI, 9 DO • Up to 16 AI, 8 AO
Memory capacity		256 kB and 1.1 MB (PM55xx)	• Advanced: 512 MB (64 DR) • Standard: 512 MB (50 DR) • Essential: 64 MB (10 DR)



Advanced Meters

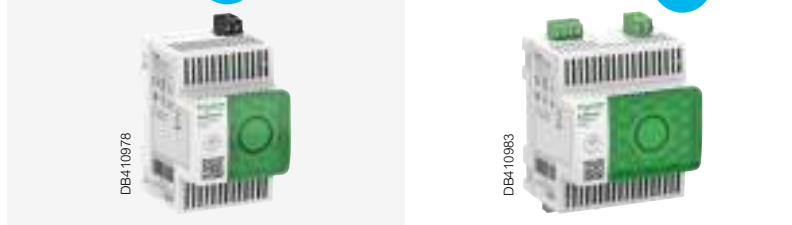
Utility Meters

	ION7400	ION9000	ION8650 A/B/C
			
Function	Energy and basic power quality meter <ul style="list-style-type: none"> • IEC 61557-12 • IEC 62053-22 • IEC 61000-4-30 Class A • ANSI C12.20 Class 0.2 • PMD /Sx/K70/0.2 • IEC 62586-1 	Energy and advanced quality meter <ul style="list-style-type: none"> • IEC 61557-12 • IEC 62053-22 Class 0.1S • IEC 61000-4-30 Class A • IEC 62856-1 / IEC 62856-2 - PQI class A • ANSI C12.20 Class 0.1 • PMD /Sx/K70/0.2 	Energy and power quality meter <ul style="list-style-type: none"> • IEC 62052-11 • IEC 62053-22/23 Class 0.2S • IEC 61000-4-30 Class A • ANSI C12.20 Class 0.1 • IEC 62586-2
Applications	Panel instrumentation I, U, F, P, Q, S, PF, E, THD min/max, harm., alarm, I/O (I, U, unbalance, demand, clock/cal, flicker)	Panel instrumentation I, U, F, P, Q, S, PF, E, THD min/max, harm., alarm, I/O (I, U, unbalance, demand, clock/cal)	Panel instrumentation I, U, F, P, Q, S, PF, E (demand, min/max values, unbalance, flicker, transient, sag/swell)
Energy efficiency and cost			
Sub-billing and cost allocation	•	•	•
Demand and load management	•	•	•
Billing analysis	•	•	•
Power availability and reliability			
Harmonics	•	•	•
Dip/swell, transient	•	•	•
Compliance monitoring	•	•	•
Revenue metering			
Characteristics			
Measurement accuracy (active energy)	<ul style="list-style-type: none"> • IEC 62053-22 Class 0.2S • ANSI 12.20 Class 0.2S 	<ul style="list-style-type: none"> • IEC 61053-22 Class 0.1S • ANSI 12.20 Class 0.1S 	<ul style="list-style-type: none"> • IEC 62053-22 Class 0.2S • ANSI 12.20 Class 0.1
Installation	<ul style="list-style-type: none"> • Flush and DIN rail mounted 96 x 96 mm 	<ul style="list-style-type: none"> • DIN rail mounted 	<ul style="list-style-type: none"> • ANSI socket mounting 9S, 35S, 36S, 39S and 76S • FT21 switchboard case
Voltage measurement	<ul style="list-style-type: none"> • 57-400 Vac L-N 3P (100-690 Vac L-L) 	<ul style="list-style-type: none"> • 57-400 Vac L-N 3P (100-690 Vac L-L) 	<ul style="list-style-type: none"> • 57-277 V L-N AC (9S, 36S); 100-480 V L-L AC (35S)
Current measurement	<ul style="list-style-type: none"> • External CT 	<ul style="list-style-type: none"> • External CT 	<ul style="list-style-type: none"> • External CT
Communication ports	<ul style="list-style-type: none"> • Modbus RTU • Modbus TCP • ION • DNP 3.0 • DLMS • HTTPS • SFTP 	<ul style="list-style-type: none"> • Modbus RTU • Modbus TCP • ION • DNP 3.0 • DLMS • HTTPS • SFTP 	<ul style="list-style-type: none"> • Modbus RTU • Modbus TCP • ION • DNP 3.0 • DLMS • SFTP • HTTP
Inputs/Outputs	<ul style="list-style-type: none"> • Up to 27 DI, 9 DO • Up to 16 AI, 8 AO 	<ul style="list-style-type: none"> • Up to 32 DI, 4 DO, 10 RO • Up to 16 AI, 8 AO 	<ul style="list-style-type: none"> • Up to 22 I/O
Memory capacity	<ul style="list-style-type: none"> • Advanced: 512 MB (64 DR) • Standard: 512 MB (50 DR) • Essential: 64 MB (10 DR) 	<ul style="list-style-type: none"> • 2 GB 	<ul style="list-style-type: none"> • A: 128 MB B: 64 MB C: 32 MB

Energy Management and Control

EcoStruxure Panel Server

Entry PAS400 	Universal PAS600 
--	--



Function	Entry PAS400	Universal PAS600
	<p>Compatible with a large set of wireless sensors, PowerTag Energy, HeatTag, and others. PAS400 is the perfect fit for small networks or installations where space is a challenge.</p> <ul style="list-style-type: none"> Connect to Schneider Electric Cloud solution, SCADA or BMS Benefit from PAS easy commissioning and monitoring experience for your wireless sensors 	<p>The All-in-one Panel Server Universal, PAS600 and PAS600L are designed to retrieve data from wireless, Modbus, and Ethernet based protocols to offer versatility and adaptability</p> <ul style="list-style-type: none"> Connect to Schneider Electric Cloud solution, SCADA or BMS Benefit from PAS easy commissioning and experience

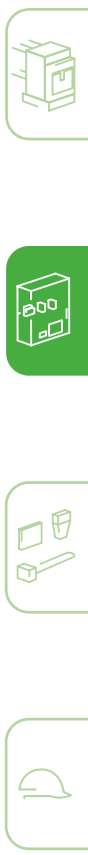
Characteristics		Entry PAS400	Universal PAS600
Power Input		110–277 Vac	110–240 Vac, 24 Vdc
Storage temperature		-40°C to +85°C	-40°C to +85°C
Operating temperature		-25°C to +60°C	-25°C to +70°C
Humidity		≤ 93%	≤ 93%
Pollution degree		Class II	Class II Class III: PAS600L
Number of devices	Total for mixed configuration	20	40
	PowerTag Energy, Acti9 Active, and wireless breaker auxiliaries	20	85 ⁽¹⁾
	Easergy TH110/CL110, and environmental sensors	20	100
External IEEE 802.15.4 and Wi-Fi	Antenna		PASA-ANT1
Modbus RS485 Master	Max. number of devices w/o repeater	–	32
	Maximum Length	–	1000 m
	Baudrate	–	1200; 4800; 9600; 19200; 38400; 57600; 115200

Communication	Entry PAS400	Universal PAS600
		Ethernet 10/100base T and Wi-Fi Access Point; TCP/IP; IP V4 / IP V6; DPWS; DHCP; Modbus/TCP Server; Modbus/TCP Client ⁽²⁾ ; Schneider Cloud Services; SFTP and HTTPS publication; External Wi-Fi/Wireless (802.15.4) Antenna ⁽²⁾

Standards	Entry PAS400	Universal PAS600
		IEC 61010; IEC 61010-1; IEC 61010-2-201; UL 61010; UL 61010-1; UL 61010-2-201; CSA C22.2 No 61010-1-12; CSA C22.2 No 61010-2-201; IEC 62974-1; IEC 62443-4-1; IEC 61326-1; EN 301-489-1; EN 301-489-17; EN 55032; CISPR 11; EN 300-328; IEEE 802.15.4; IEEE 802.11b/g/n; IEEE802.3 af/at (PAS600P, PAS800P)

Benefits	
	<ul style="list-style-type: none"> Easy installation Easy commissioning with EcoStruxure Power Commission, a single tool that auto discovers, configures, tests and maintenance Embedded web pages for real time, complete and accurate views into power network energy and operations efficiency Enhanced cybersecurity design at every phase of the product life cycle

⁽¹⁾ Lower limits may apply depending on the firmware version, consult the User Manual, Release Notes or other documentations
⁽²⁾ Only Universal PAS600 and Advanced PAS800



Energy Management and Control

EcoStruxure Panel Server



Universal Wired by Design PAS600WD	Advanced PAS800
---------------------------------------	-----------------



Function	Universal Wired by Design PAS600WD	Advanced PAS800
Function	<p>Panel Server Universal Wired by Design, PAS600LWD and PAS600PWD are designed for specific cybersecurity sensitive installations, dedicated to wired communication protocols (Modbus, Ethernet)</p> <ul style="list-style-type: none"> Connect to Schneider Electric Cloud solution, SCADA or BMS Benefit from improved security with the Wired by Design PAS 	<p>Discover PAS Data Logger and Local Energy Server capabilities. It embodies the first step into energy monitoring for small businesses. Follow, analyze and compare your loads consumption to enable energy savings.</p> <ul style="list-style-type: none"> Connect to Schneider Electric Cloud solution, SCADA or BMS Benefit from local Energy management and improve your energy efficiency

Characteristics

Power Input	24 Vdc, POE (Power over Ethernet)	110-240 Vac, 24 Vdc, POE (Power over Ethernet)
Storage temperature	-45°C to +85°C	-40°C to +85°C
Operating temperature	-25°C to +85°C	-25°C to +70°C
Humidity	≤ 93%	≤ 93%
Pollution degree	Class II: PAS600PWD Class III: PAS600LWD	Class II: PAS800P, PAS800 Class III: PAS800L
Number of devices	-	40
	-	85 ⁽¹⁾
	-	100
External IEEE 802.15.4 and Wi-Fi	-	PASA-ANT1
Modbus RS485 Master	32	32
	1000 m	1000 m
	1200; 4800; 9600; 19200; 38400; 57600; 115200	1200; 4800; 9600; 19200; 38400; 57600; 115200

Communication	Universal Wired by Design PAS600WD	Advanced PAS800
Communication	Ethernet 10/100base T; PPPoE (PAS600PWD)TCP/IP; IP V4 / IP V6; DPWS; DHCP; Modbus/TCP Server; Modbus/TCP Client ⁽²⁾ ; Schneider Cloud Services; SFTP and HTTPS publication	Ethernet 10/100base T and Wi-Fi Access Point; TCP/IP; IP V4 / IP V6; DPWS; DHCP; Modbus/TCP Server; Modbus/TCP Client ⁽²⁾ ; Schneider Cloud Services; SFTP and HTTPS publication; External Wi-Fi/Wireless (802.15.4) Antenna ⁽²⁾ ; PPoE (PAS800P)

Standards	Universal Wired by Design PAS600WD	Advanced PAS800
Standards	IEC 61010-2; UL 61010-2; CSA C22.2; IEC 62974-1; IEC 62443-4-1; IEC 61326-1; EN 301-489; EN 55032; CISPR 11; EN 300-328; IEEE 802.15.4; IEEE 802.11 a/b/g/n; IEEE 802.3 af/at (PAS800P)	IEC 61010; IEC 61010-1; IEC 61010-2-201; UL 61010; UL 61010-1; UL 61010-2-201; CSA C22.2 No 61010-1-12; CSA C22.2 No 61010-2-201; IEC 62974-1; IEC 62443-4-1; IEC 61326-1; EN 301-489-1; EN 301-489-17; EN 55032; CISPR 11; EN 300-328; IEEE 802.15.4; IEEE 802.11b/g/n; IEEE 802.3 af/at (PAS600P, PAS800P)

Benefits

- Easy installation
- Easy commissioning with EcoStruxure Power Commission, a single tool that auto discovers, configures, tests and maintenance
- Embedded web pages for real time, complete and accurate views into power network energy and operations efficiency
- Enhanced cybersecurity design at every phase of the product life cycle
- PAS800 only: 3 Years Data historization, energy monitoring and trending capabilities

⁽¹⁾ Lower limits may apply depending on the firmware version, consult the User Manual, Release Notes or other documentations









⁽²⁾ Only Universal PAS600 and Advanced PAS800



Low Voltage Protection

Acti9 Range

Electrical Auxiliaries





	Acti9 iC60N 	Acti9 C60H-DC 	OF 	SD 
	 PB104440-35 PB104445-35	 PB107183-34 PB107183-34	 PB104474-35	 PB104476-35
Function	DIN rail miniature circuit-breakers. Circuit-breaker used in auxiliary power supply circuits providing overload and short-circuit protection	DIN rail miniature circuit-breakers. Circuit-breaker used in auxiliary power supply circuits providing overload and short-circuit protection	Open/ closed contact	Fault signalisation contact
Rated voltage	<ul style="list-style-type: none"> 1P/1P+N: 12 to 240 Vac 2P/3P/4P: 12 to 440 Vac 	<ul style="list-style-type: none"> 1P: 24 to 250 Vdc 2P: 24 to 500 Vdc 	<ul style="list-style-type: none"> 240 to 415 Vac 24 to 220 Vdc 	
Number of poles	1, 1P+N, 2, 3, 4	1 or 2		
Nominal current	0.5 to 63 A	0.5 to 63 A	Maximum operating current: 100 mA mini, 6 A maxi	
			LCA	2 mA to 100 mA/ up to 220 Vdc and 240 Vac
			24 Vdc	6 A
			48 Vdc	2 A
			60 Vdc	1.5 A
			130 Vdc	1 A
			24 to 240 Vac	6 A
			415 Vac	3 A
Connection	Screw	Screw	Screw	
Standard	IEC/EN 60947-2	IEC/EN 60947-2	IEC/EN 60947-5-1	
Type of loads				
Tripping curves				
Standard	C (8 I _n ± 20%)	C (8.5 I _n ± 20%)		
Inrush current	D (12 I _n ± 20%)			
Electronics or high cable length	B (4 I _n ± 20%)			
Benefits				
The Acti 9 circuit-breaker is recognised in over 100 countries for its quality and the breadth of its range, making it an indispensable component for your Low Voltage cabinet with complete peace of mind.				



Low Voltage Relays

Zelio Relays



Designed for the adaptation, amplification, multiplication and processing of information in automated systems	Miniature relays RXM 	Universal relays RUM 
		
Switching voltage	12/24/48/110/125/220 Vdc 24/48/120/230/240 Vac	12/24/48/60/110/125/220 VDC 24/48/120/230 Vac
Number of contacts	2, 3 or 4 CO	2 or 3 CO
Current	3 - 6 - 10 - 12 A	10 A
Mounting	Plugs into socket (DIN rail)	Plugs into socket (DIN rail)
Standards	IEC 61810-1	IEC 61810-1
Benefits		
<ul style="list-style-type: none"> • Wide choice of number of contacts (up to 4) • Simplicity of installation and maintenance • Push-in wiring in RXM family • Standardization of relay pin arrangement on its socket • Lockable test button to close manually the contacts and test the application during commissioning or debugging phase • Clear indication of the contact status by mechanical flag, and power on coil by LED 		



Low Voltage Control and Signalling

Push Buttons and Switches

	XB7 	ZB5/XB5 	ZB4/XB4 	K1/K2 
Standard Version				
Enables operation of the Low Voltage circuits of the Medium Voltage cubicle				
Illuminated Version: Push buttons/Pilot lights/Switches				
Provides status information and enables control of Low Voltage circuits				
Mounting hole	22	22/30	22/30	16/22
Material	Plastic	Plastic	Metallic	Plastic or metallic
Head shape	●	●	●	■
Composition type	Unibody	Modular	Modular	Modular
Panel fixing	Plastic nut	Plastic nut	3 points metal	Plastic nut or 4 screws
Degree of protection	IP65	IP66, IP67, IP69, IP69K	IP66, IP67, IP69, IP69K	IP40/IP65
Rated insulation voltage	250 V	600 V	600 V	690 V
Standards	250 V	600 V	600 V	690 V
Standard and Illuminated versions	<ul style="list-style-type: none"> UL/CSA, IEC, CCC, UAC 	<ul style="list-style-type: none"> UL/CSA, IEC, CCC, EAC Marine: BV, LROS, DNV, GL 	<ul style="list-style-type: none"> UL/CSA, IEC, CCC, EAC Marine: BV, LROS, DNV, GL 	<ul style="list-style-type: none"> UL/CSA, IEC

Benefits

Standard version

- Easy to select and install
- A wide choice of functions
- Robustness and mechanical durability
- High protection degree
- Excellent aesthetics and ergonomics

Illuminated version


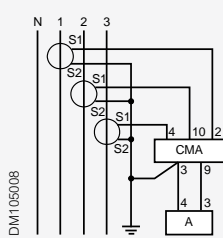

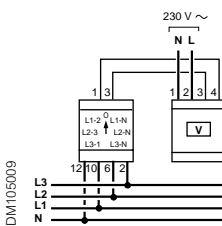
- Long life resistance (LED technology)
- True colors and excellent brightness
- A wide choice of voltages
- High protection degree
- Easy mounting



Low Voltage Control and Signalling

Selector Switches



	CMA	CMV
	 <small>PE90483</small>  <small>DM105008</small>	 <small>PE90494</small>  <small>DM105009</small>
Function	CMA uses a single ammeter (by means of Current Transformers) for successive measurement of the currents of a three-phase circuit	CMV uses a single voltmeter for successive measurement of voltages (phase-to-phase and phase-to-neutral) of a three-phase circuit
Mechanical switching cycles	2 000 000	2 000 000
Electrical switching cycles	100 000	100 000
Max. rated voltage		500 V
Max. rated current	20 A	
Mounting	48 x 48 Flush mounted	48 x 48 Flush mounted
Standards	IEC 60947-3	IEC 60947-3
Benefits		
	<ul style="list-style-type: none"> • AgNi contact helps ensuring mechanical durability • IP 65 on front face 	

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Legend panels



3 phase pilot lights



Diam 12/10/8 pilot lights



New signaletic pilot lights from XA2 (Not UL certified)




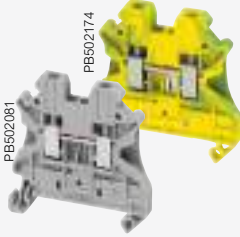
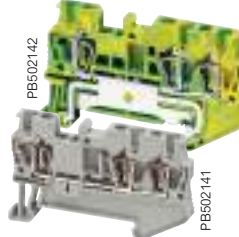

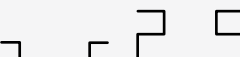
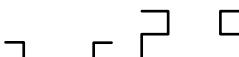
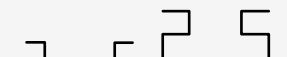


Harmony Hub + Temperature sensors and current monitoring



Low Voltage Control and Signalling

Lineryg TR - Terminal Blocks

	NSY TRV 	NSY TRR 	NSY TRP 
			
Function	Helps ensuring connection of Low Voltage cables or wires	Helps ensuring connection of Low Voltage cables or wires	Helps ensuring connection of Low Voltage cables or wires
Technology	Screw clamp technology	Spring clamp technology	Push-in technology
Connection functions	<ul style="list-style-type: none"> • Passthrough (2.5 - 150 mm²) • Protective earth • Disconnect type (blade or fuse) • Double deck, multi-pole • Multifunction • Neutral disconnect 	<ul style="list-style-type: none"> • Passthrough (2.5 - 35 mm²) • Protective earth • Disconnect type (blade or fuse) • Double deck, multi-pole 	<ul style="list-style-type: none"> • Passthrough (2.5 - 4 mm²) • Protective earth • Disconnect type (blade or fuse) • Double deck, multi-pole
Conductor nominal c.s.a. (cross section area)	2.5 mm ² to 150 mm ²	2.5 mm ² to 35 mm ²	2.5 mm ² and 4 mm ²
Number of poles	1 - 1 x 1/1 - 2 x 2 2 - 1 x 1/3 - 1 x 1	1 - 1 x 1/1 - 1 x 2/1 - 2 x 2 2 - 1 x 1/2 - 1 x 2/3 - 1 x 1	1 - 1 x 1/1 - 1 x 2/1 - 2 x 2 2 - 1 x 1/2 - 1 x 2/3 - 1 x 1
Clip-on mounting on rail type			
Certifications	UL, CSA, VDE, ATEX, LR, GL, DNV, EAC	UL, CSA, VDE, ATEX, LR, GL, DNV, EAC	UL, CSA, VDE, ATEX, LR, GL, DNV, EAC
Benefits			
	<p>Rugged and reliable</p> <p>This technology not only helps to enhance the quality, safety, and availability of the equipment but also streamlines installation, setup, and operation through its simple, integrated functions.</p>	<p>Cost effective (quick and reliable)</p> <p>Spring technology is a maintenance-free connection method that helps assuring separation of mechanical and electrical functions. It also helps to prevent the need for regular re-tightening</p>	<p>Quick and innovative</p> <p>Solid conductors or conductors with cable-ends can be directly inserted into the terminal block without tools.</p> <p>The actuation lever can be operated with any tool for releasing conductors</p>

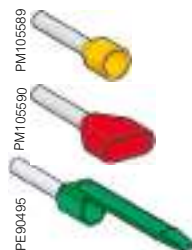


Low Voltage Control and Signalling

Linerigy TR - Terminal Blocks



Cable Ends



Function	<ul style="list-style-type: none">Facilitates the insertion of wires into the terminals and helps assuring the insulation between adjacent connectionAllows the identification of the wires
Technology	Insulated cable ends
Connection functions	Four available versions: <ul style="list-style-type: none">Single conductor cable endsSingle conductor markable cable endsUninsulated cable endsTwin conductor cable ends
Conductor nominal c.s.a. (cross section area)	0.25 mm ² to 50 mm ²
Certifications	UL, CSA

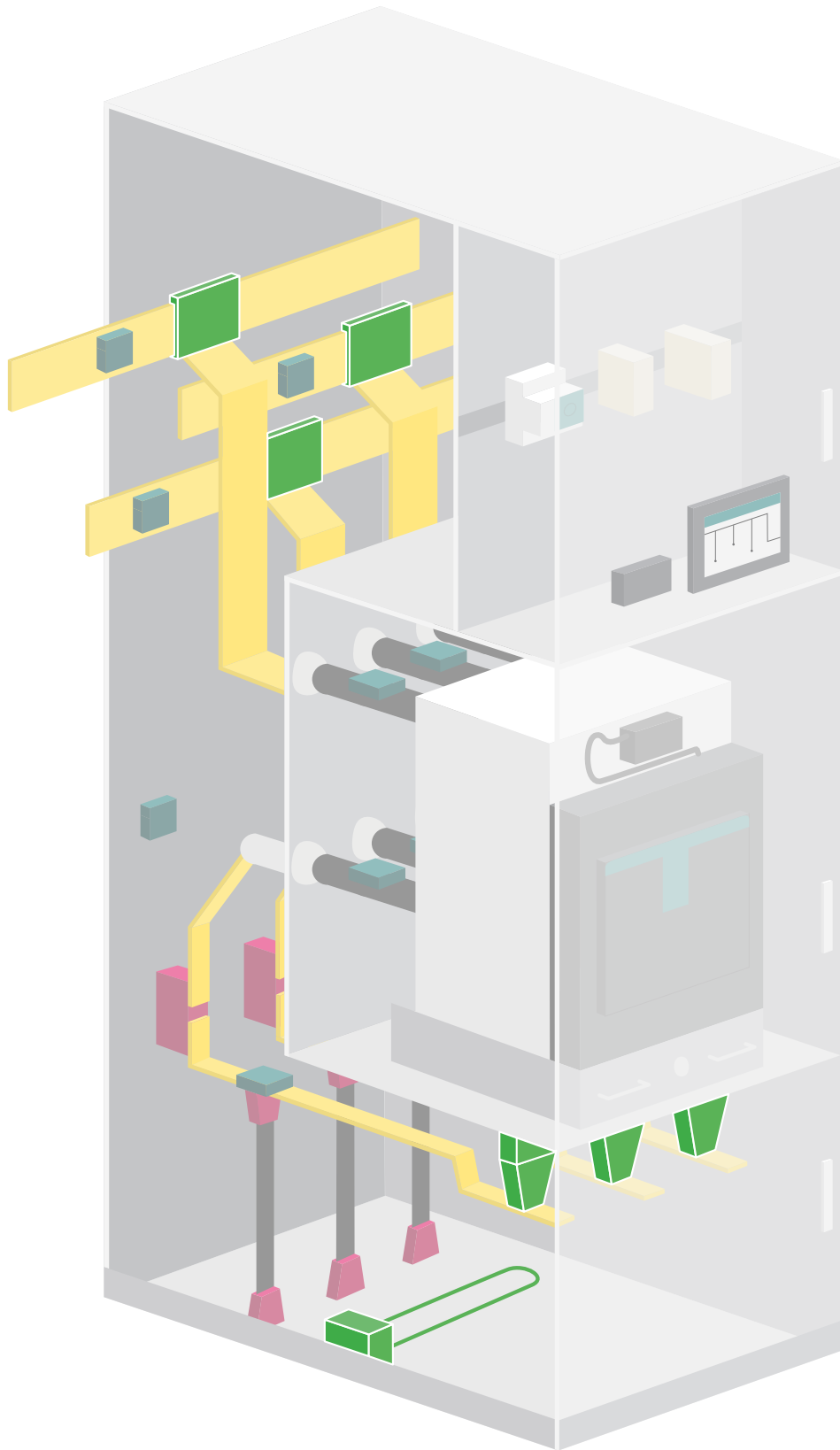
Benefits

Fast and reliable wiring

Use the AZ5 and DZ5 ranges of cable ends to simplify wiring and provide optimum electrical continuity between wire and terminal block.







Accessories

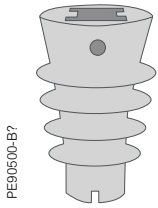
Accessories

Insulating Holder with or without Capacitive Divider	C-2
Anti-Condensation Heating Element	C-2
Insulation Busbar Cover	C-2
High Resistance Plastic Window	C-3
Cubicle Compartment Handle	C-3



Accessories

Characteristics and References



PE90500-B?

Insulating Holder with or without Capacitive Divider

Function

- **Without capacitive divider:** Provides mechanical support and insulation through their rigid fin arrangement; used to support busbars and cable ends
- **With capacitive divider:** Provides mechanical support and insulation. The embedded capacitors in this insulating holder provide voltage output to indicate the voltage presence, up to 24 kV

Technical specifications

- Height: 175 mm
- Capacitive divider: ISO 35 pf

Reference numbers

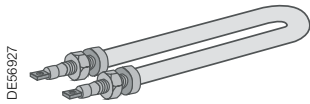
- **3 insulating holders:**
 - 17.5 kV ref. [59431](#)
 - 24 kV ref. [AAA10075](#)
- **3 insulating holders with capacitive divider:**
 - 17.5 kV ref. [59430](#)
 - 24 kV ref. [AAA10074](#)

Standards

IEC

Benefits

- Dielectric withstand
- Mechanical robustness



DE56927

Anti-Condensation Heating Element

Function

Heating the inside of the cubicle when the ambient temperature is too low

Technical specifications

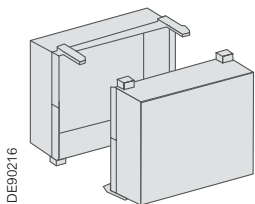
- 220 Vac
- 150 W
- Length: 432 mm
- Supplied with its support without thermostat

Reference numbers

[59280](#)

Benefits

Avoid condensation in the cubicle



DE90216

Insulation Busbar Cover

Function

Set of three insulating covers which enables improved dielectric withstand at the busbars connections in the cubicle

Technical specifications

For 1 to 4 busbars (100 mm x 800 mm each)

Reference numbers

[59420](#)

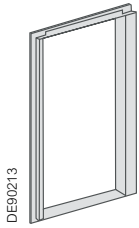
Benefits

Can be adjusted according to number of busbars



Accessories

Characteristics and References



High Resistance Plastic Window

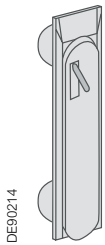
Function Located on the panel or the door, allows you to see inside a cubicle

Technical specifications

- 3 mm thick transparent polycarbonate window
- Dimensions: 138 mm x 85 mm

Reference numbers 59105

Benefits Internal arc withstand up to 31.5 kA



Cubicle Compartment Handle

Function Enables the front panel door of the cubicle to be closed

Technical specifications

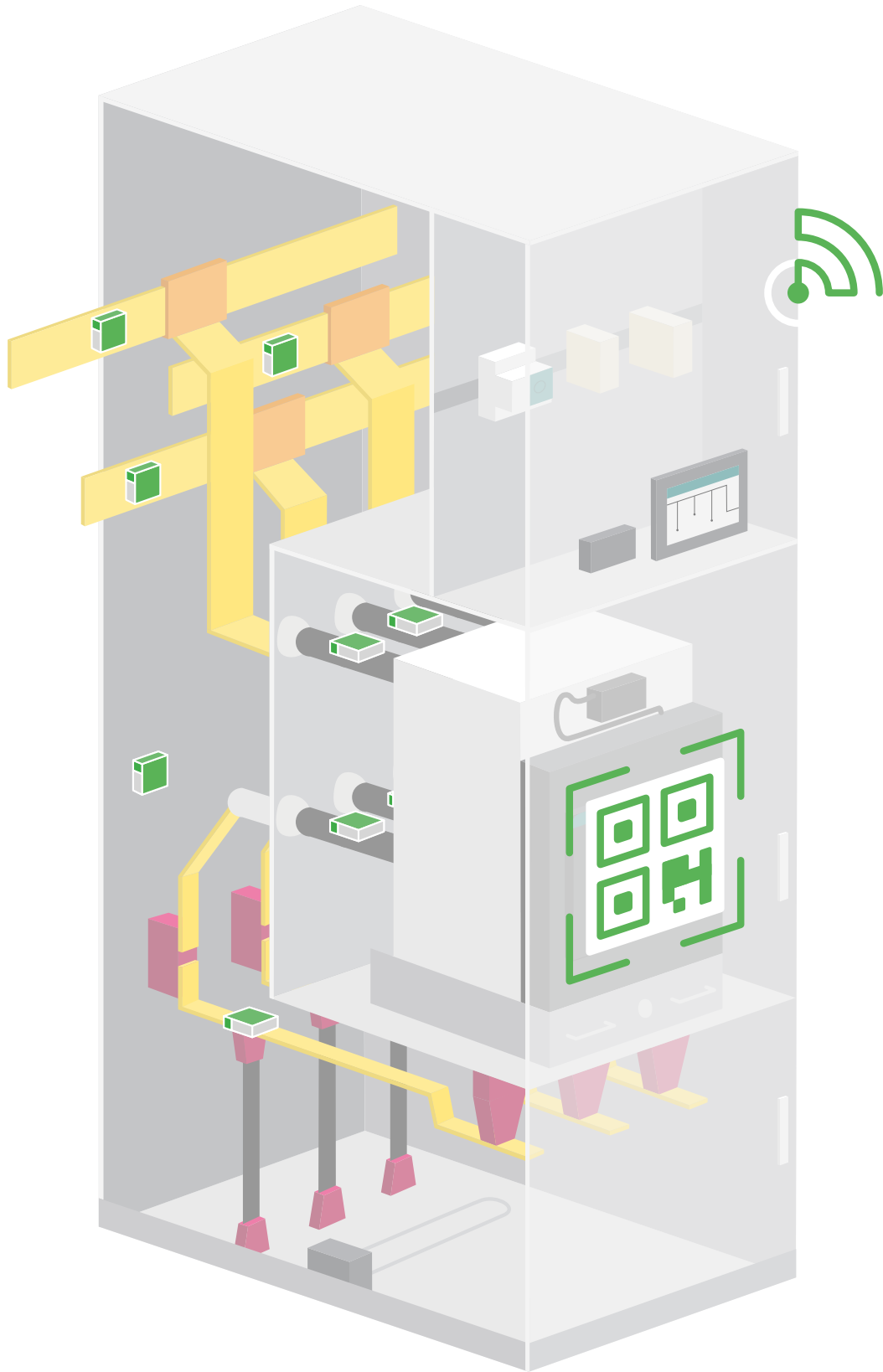
- Material: Zamak
- A version with key is available

Reference numbers

- 59270 (handle)
- 59271 (handle with key)

Benefits Robustness





Complementary Services

Complementary Services

Power Quality Solutions	D-2
PowerLogic DVR	D-3
Testing and Certification	D-4
Connected Solutions	D-5
Litteratures	D-6



Power Quality Solutions

As our world becomes increasingly digital and interconnected, electrical networks face growing challenges from sensitive electronics, dynamic load variations, and network disturbances. Power quality is now critical to ensuring system reliability, efficiency, and compliance. The integration of local renewable generation, energy storage, and EV charging infrastructure adds further complexity, creating fast-changing load patterns and nonlinear behaviors. These conditions demand a tight voltage envelope and robust power quality solutions.



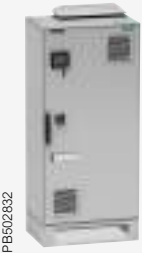
Active technologies such as AccuSine PCSP and PowerLogic DVR provide effective solutions for:

- Power factor correction, Harmonic mitigation, and Flicker management (AccuSine PCSP)
- Voltage regulation (PowerLogic DVR)

These technologies help improve reliability, support grid compliance, and reduce operating costs.

Hybrid Solutions for MV Applications

For MV networks, Hybrid solutions offer an economical approach to power factor correction and harmonic filtering. These solutions combine MV power-factor-correction equipment and AccuSine EVC Plus or AccuSine PCS Plus (via a step-up transformer), to help achieve unity power factor and meet harmonic standards (IEE 519) at the point of common coupling.

Feature Set	PowerLogic PFC	Accusine EVC Plus	Accusine PCS Plus
			
Function	kVAR correction	kVAR correction ±1 kVAR	kVAR + harmonics correction ±1 kVAR / 50 th order
Stepless PF Compensation	No	Yes	Yes
Response Time (ms)	10-600 secs	≤ 1/4 cycle	≤ 1/4 cycle
Lag PF Correction	Yes	Yes	Yes
Lead PF Correction	No	Yes	Yes
Unbalance Correction	No	Yes	Yes
Resonance and Harmonic Amplification	High	Low	Low
Harmonic Filtering	No (Minimal)	Yes (5 th , 7 th , 11 th and 13 th)	2 nd to 51 st harmonic order

PowerLogic DVR

High-Performance Voltage Regulation

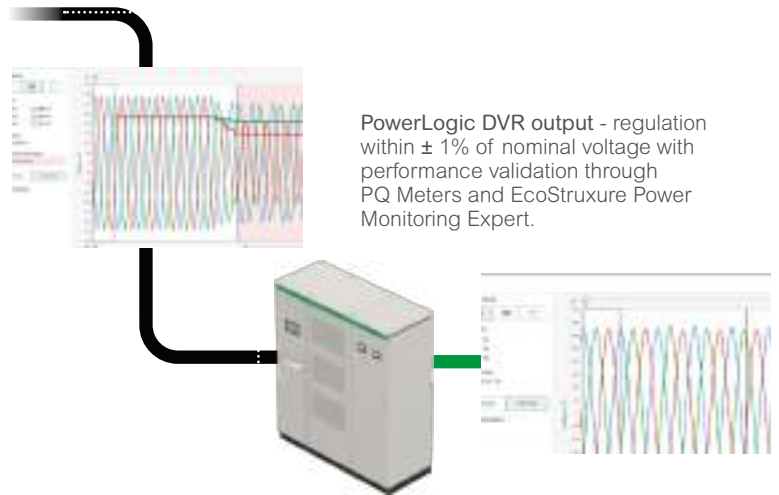
Power Logic DVR

The PowerLogic DVR is an advanced IGBT-based electronic compensator without batteries designed to deliver exceptional voltage stability and reliability. It dynamically injects or absorbs energy to mitigate electrical disturbances, ensuring a stable nominal voltage ($V_n \pm 1\%$) with an ultra-fast response time.

Key System Specifications

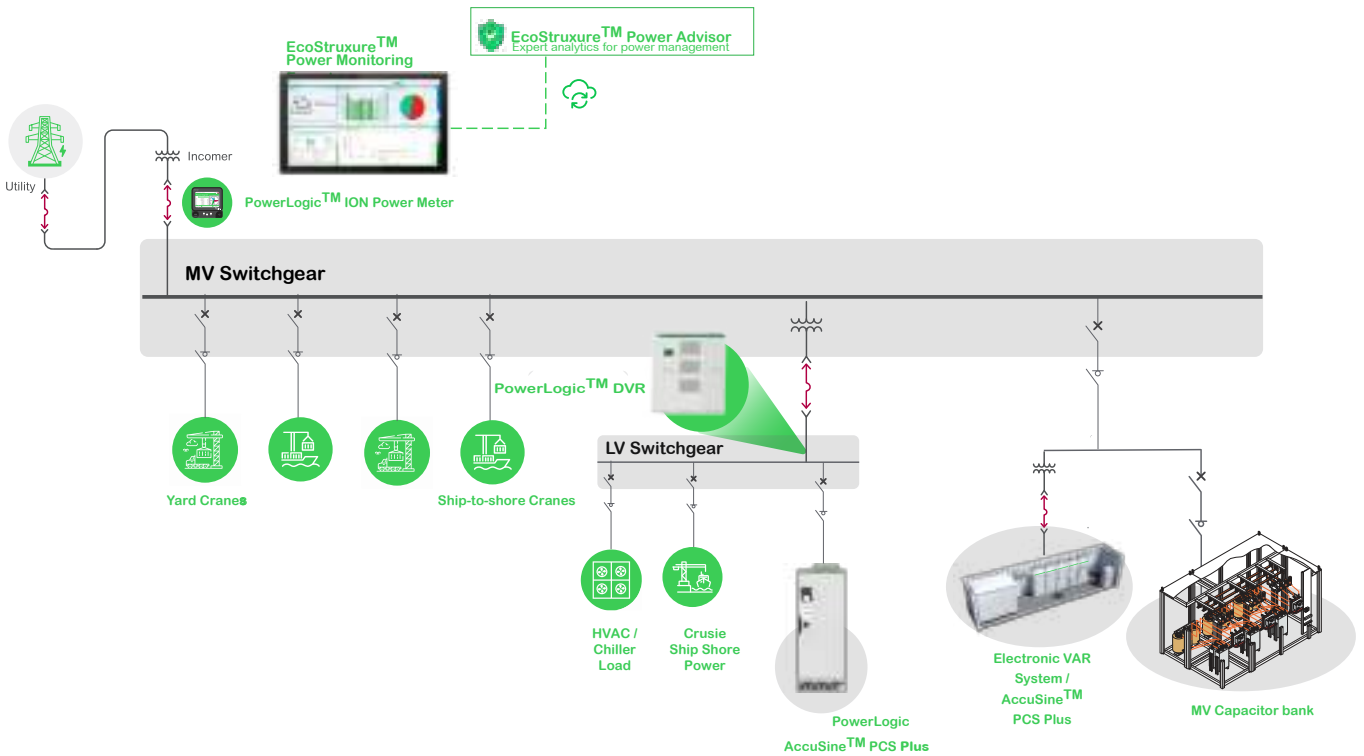
Input Voltage	200 to 690 Vac
Capacity Rang	150–900 kVA (higher ratings on request)
Continuous Voltage Regulation	$\pm 20\%$
Frequency	50/60 Hz $\pm 10\%$
Overload Capability	> 98%
	110% for 30 secs, 150% for 1 sec
Maximum Sag Depth (3-phase)	110% for 30 secs, 150% for 1 sec
Single-Phase Sag Correction	-40% (higher on request)
Static Regulation	Up to -70%
Response Time	$\pm 1\%$
Transfer to Bypass	< 0.5 ms

PowerLogic DVR input - Sag captured at the incomer (37.2% sag or 62.8% remaining voltage).



PowerLogic DVR output - regulation within $\pm 1\%$ of nominal voltage with performance validation through PQ Meters and EcoStruxure Power Monitoring Expert.

Voltage regulation challenges in the MV networks can be addressed connecting a PowerLogic DVR (via a step-up transformer), to help achieve +20 to -20% continuous voltage regulation and sag correction upto 70% of the nominal voltage.



For more information, please follow up: <https://www.se.com/us/en/product-category/4300-power-quality-and-power-factor-correction/>



Testing and Certification Laboratory



PM110149



Experienced F-lab Volta and Amplitude laboratories cooperates with several Schneider Electric entities throughout the world supporting development of quality and safety (robustness and reliability) of products and systems in conformity with various standards covering most of the global market.



PM110150



Power laboratory

The power laboratory has acquired extensive experience in short-circuit tests on low and medium voltage products. The tests are conducted in compliance with standards IEC, IEEE, ANSI, UL, HN, etc. and others depending on the specifications of our customers.

The laboratory is equipped with 3 power alternators (2 x 600 MVA and 1 x 2500 MVA).

Medium Voltage tests

- Bench to conduct make and break tests under MV downstream load: up to 36 kV - 3 phases (inductive, resistive and capacitive loads)
- Bench to conduct MV short-circuit make and break tests: up to 18 kV - 80 kA - 3 phases
- Bench to conduct tests on arc due to MV internal fault: 31.5 kA - 1s; 40 kA - 0.5 s; 50 kA - 0.25 s.



PM110151



Functional laboratory

Functional laboratory check behavior of the devices under their normal and specific operating conditions.

It provides support throughout all the development, checking and certification phases, including quality sampling to monitor performance.

Functional tests

This laboratory proposes a wide range of test services (heating, triggering, dielectric, etc.) at high performance levels and using unique means such as tests on the energy measuring devices.

- Temperature rises up to 15 kA AC and 7 kA DC - climatic chamber up to 100 m³
- Triggering of overload and short-circuit
- LV and MV dielectric
- Aging tests
- Specific 230 m³ climatic chamber for dielectric, water and ice.

Explore all F-lab Expertise



500 000

EcoStruxure™ has been deployed in almost 500 000 sites with the support of some 20 000 developers, 650 000 service providers and partners, and 3 000 utilities, and connects over 2 million assets under management.

EcoStruxure™ Connected



Efficient asset management

Greater efficiency with **predictive** maintenance helping to reduce downtime.



24/7 connectivity

Real-time data **everywhere anytime** to make better informed decisions.



Increased protection

Proven design and experience combined with **internal arc designs** to enhance people and equipment protection.

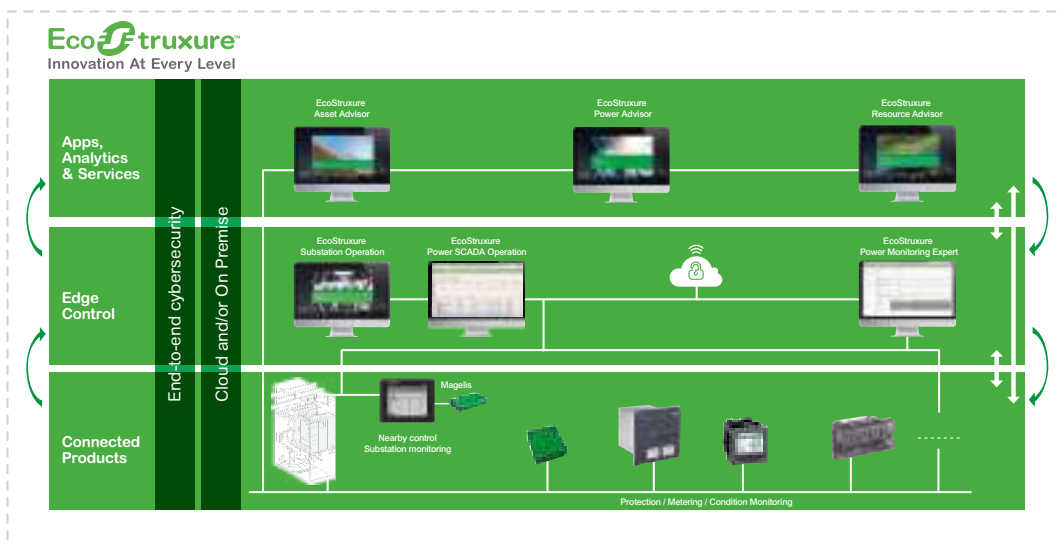
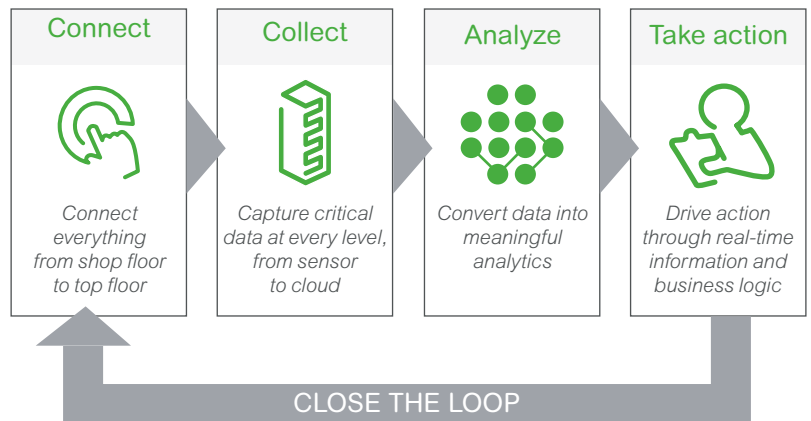
EcoStruxure™ is our open, interoperable, IoT-enabled system architecture and platform. EcoStruxure delivers enhanced value around **safety, reliability, efficiency, sustainability, and connectivity** for our customers. EcoStruxure leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver Innovation at Every Level. This includes Connected Products, Edge Control, and Apps, Analytics and Services, which are supported by Customer Lifecycle Software.

Turn data into action

EcoStruxure™ architecture lets customers maximize the value of data.

Specifically, it helps them:

- Translate data into actionable intelligence and better business decisions
- Take informed decisions to secure uptime and operational efficiency thanks to real-time control platforms
- Gain visibility to their electrical distribution by measuring, collecting, aggregating, and communicating data



Learn more on our Medium Voltage products and technology



Helping you design MV products according to IEC standards

- Our talented electrical distribution experts share their industry-leading knowledge of technological developments and evolving medium-voltage standards.

MV Technical Guide



Helping protect people and systems from arc flash in medium voltage equipment

- Easy to understand approach on arc flash systems installed in MV switchgear

Arc Flash eGuide



Improving your business with digital self-service

- Digital self-service helps your business improve flexibility and productivity, allowing you to quickly adapt to customer needs in changing times.

Digital Life Cycle eGuide



Schneider Electric EcoFit™ Life Extension Essential Catalog

- Discover in a single catalog all assets and services to modernize existing MV and LV installations by adding sensors and communication capabilities.

Catalog EcoFit™ Life Extension Essential



Register to mySchneider and simplify your life at all steps of your business

Connect mySchneider



Register to [mySchneider](#) portal and discover your personalized experience giving you access to tools and resources helping you being more efficient, productive, develop your skills and collaborate.

- You'll get:
- Productivity tools
 - Personalized resources
 - Collaborative sales support
 - Trainings

Get Support anytime

PM107943



- Access 24/7 self-service, mobile catalog and access to expert help
- Offline and online catalog
- Get trainings, Advanced support

Collaborate, find solution and make business



- Get to Schneider Electric Exchange find solution develop business
- Schneider Electric Exchange is an online community where individuals can do business
- Whether you're seeking find Solutions or have products, services, and advice to share
- We'll help you connect with peers, technology partners, and experts to gain a competitive edge

Select and Design

PM107944



Advanced WEB functionalities that help to:

- Select and compare components
- Build easily your technical documentation with ready to use tools (CAD, export files)

Manage your installed base



Digital Logbook, where you can find all of the documents you'll need during your circuit breakers' manufacturing, installation, operation, and maintenance from anywhere, in a single, well secured paperless environment.

- User manuals
- Design drawings
- Single-line drawings
- Factory and site acceptance tests
- Spare parts lists
- Maintenance records, schedules, and more

Configure and Quote

PM107946



Simplified and validated configuration

- Always updated technical content
- Ready to use data and documentation for your projects
- Last minute changes
- Manage and track your orders

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Electric

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