Product datasheet

Specifications

protection relay Easergy P1V 90-250V 4VT: 220-480V 6DI-8DO RS485 USB

REL15033

Main

Range of product	PowerLogic
Product or component type	Protection relay
Relay application	Voltage
product reference	P1
Device mounting	Flush
Mounting support	Fixing kit
Mounting mode	Flush-mounted
power supply	90...240 V AC 90...250 V DC
measuring inputs	: VT voltage 6
number of Digital Inputs (DI)	6
number of Digital Outputs (DO)	8 DO 1 watchdog
type of temperature module connection	1 twisted shielded pair
communication ports	1 RS485 on rear 1 USB type mini B on front
communication protocols	CEI 60870-5-103 Modbus RTU
Cybersecurity	Password protection
protection functions	Undervoltage 27 Overvoltage 59 Earth fault overvoltage 59N Lockout relay 86 Negative sequence overvoltage 47 Positive sequence undervoltage 27D Overfrequency 81O Underfrequency 81/81N Rate of change of frequency 81R Auto-recloser based on frequency 79V
Arc flash protection	No
measurement functions	Frequency Voltage positive sequence Voltage negative sequence Voltage RMS
control functions	Local/remote control
monitoring functions	Circuit breaker monitoring Trip circuit supervision 74 Event counters Relay self-monitoring

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logs and records	Event recording
	Disturbance recording
	Trip context information
Switchgear diagnosis type	Trip circuit supervision ANSI code: TCS
	VT supervision
Connections - terminals	Snap-on fixed
	Screw clamp terminals fixed

Complementary

Maximum power consumption in W	13.5 W AC
	4 W DC
Software name	ESetup Easergy Pro: device setup
Display type	Graphic display terminal
Number of key	9
Local signalling	6 x LED red/orange programmable
	1 x LED red relay trip indicator
	1 x LED green watchdog
Device connection	Serial port 1 shielded twisted pair
Communication compatibility	IEC 60870-5-103
	Modbus RTU
Standards	EN 60255-26:2009
	EN 60255-1:2010
	EN 60255-27:2005
Product certifications	CE
Height	Embedded: 101.5 mm
	Total: 116.5 mm
Width	Embedded: 101.5 mm
	Total: 116.5 mm
Depth	Embedded : 108 mm
	Total : 119 mm
Net weight	0.8 kg maximum

Environment

Directives	2006/95/EC - low voltage directive
	2004/108/EC - electromagnetic compatibility
Electromagnetic compatibility	Electromagnetic immunity level 3 conforming to EN 61000-4-2/3/4/5/6/8
Mechanical robustness	Seismic tests: 2 Gn horizontal, 1 Gn vertical conforming to EN 60255-21-3
	Shocks (level: class 1) : 5 Gn for 11 ms conforming to EN 60255-21-2
	Shocks withstand (level: class 1) : 10 Gn for 16 ms conforming to EN 60255-21-2
	Bumps (level: class 1) : 15 Gn for 11 ms conforming to EN 60255-21-2
	Vibrations (level: class 1) : 1 Gn, 10...150 Hz, 1 cycle conforming to EN 60255-21-1
Ambient air temperature for operation	-25…60 °C
	-30…70 °C (16 h)
Ambient air temperature for storage	-30…70 °C
IP degree of protection	IP54 conforming to IEC 60529
Relative humidity	0…93 % at 40 °C, 21 days
	0…93 % at 60 °C, 10 days
	93 % at 25…55 °C, 6 cycles, 12 + 12 hours

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	19.5 cm
Package 1 Width	16.5 cm
Package 1 Length	16.5 cm
Package 1 Weight	873.0 g

⬤ Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained ⟩

How we assess product sustainability ⟩

🌿 Environmental footprint

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	**226**
Environmental Disclosure	**Product Environmental Profile**

Use Better

🗇 Materials and Packaging

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
REACh Regulation	**REACh Declaration**
China RoHS Regulation	**China RoHS declaration**

Use Again

↻ Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**

Technical Illustration

Wiring diagram

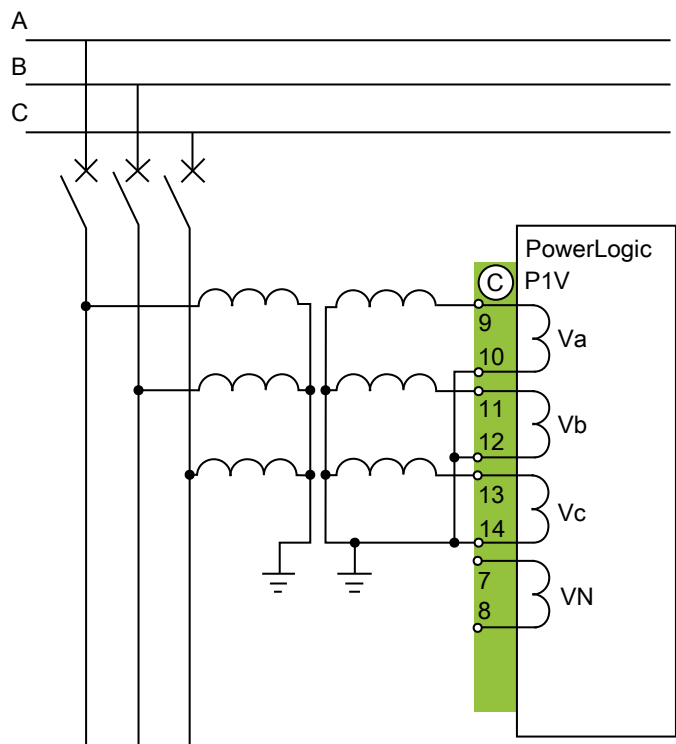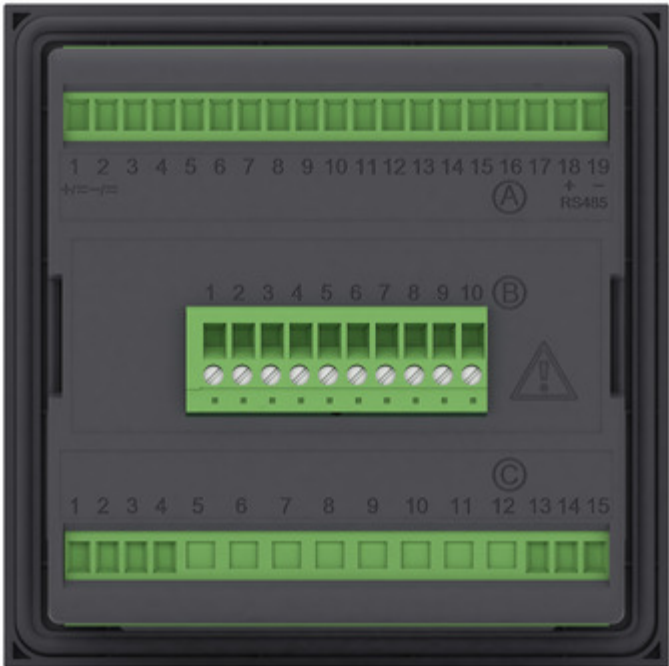Image of product / Alternate images

Alternative

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Technical Illustration

Assembly's dimensions