Product data sheet

Specifications



() Discontinued

universal protection relay, PowerLogic P3U10, 4L, 1U, 2DI/ 5DO, Uaux: 48-230V, DI: 24-230V

REL52026

- () Discontinued on: Dec 31, 2023
- (!) End-of-service on: Jan 30, 2024

Main

wam		
Range Of Product	PowerLogic P3	
Product Or Component Type	Protection relay	
Relay Application	Universal	
Product Reference	P3U10-5AAA1AAAA	
Power Supply	48230 V AC/DC	
Measuring Inputs	: 1/5 A CT phase current 3 : 1/5 A CT residual current 1 : 100 V/110 V VT voltage 1	
Number Of Sensors	0 temperature sensor(s) 0 arc sensor(s)	
Number Of Digital Inputs (Di)	2	
Number Of Digital Outputs (Do)	1 watchdog 5	
Number Of Analogue Inputs	0	
Number Of Analogue Outputs	0	
Communication Ports	USB port 1 front	
Cybersecurity	Port hardening Password protection	
Protection Functions	Phase undercurrent 37 Negative sequence overcurrent 46 Broken conductor 46 12/11 Excessive starting time, locked rotor 48/51LR Thermal overload protection 49 Phase overcurrent 50/51 Earth fault overcurrent 50N/51N Breaker failure 50BF Switch ON to fault (SOTF) Capacitor bank unbalance 51C Capacitor overvoltage 59C Neutral voltage displacement 59N Motor restart inhibition 66 Directional earth fault 67N Transient earth fault 67N Transient earth fault 67NI CT supervision 60 H2 detection 68H2 H5 detection 68H5 Recloser 79 Lockout relay 86 Cold load pick-up Programmable stages 99 Programmable curve	
Arc Flash Protection	No	

Management Frank	
Measurement Functions	Current 3-phase
	Current zero sequence
	Current positive sequence
	Current negative sequence
	Current ratio of negative and positive Voltage phase to earth
	Voltage phase to phase
	Voltage zero sequence
	Voltage positive sequence
	Voltage negative sequence
	Voltage ratio of negative and positive Short circuit fault reactance
	Fault location current
	Earth fault reactance
	Frequency
	Active power
	RMS active power
	Reactive power
	RMS reactive power
	Apparent power
	RMS apparent power
	Active energy
	Reactive energy
	Cos φ
	Tan φ
	Power angle
	Power factor
	Voltage phasor diagram view
	Current phasor diagram view
	Current 2nd, 15th harmonics with THD
	Voltage 2nd, 15th harmonics with THD
	Voltage interruption
	Condition monitoring CB wear
Control Functions	Switchgoor control and monitoring
Control 1 directoris	Switchgear control and monitoring
	Programmable switchgear interlocking Local control on single-line diagram
	Local control with I/O keys
	Local/remote control
	2 function keys
	Mobile application with Easergy SmartApp
	Web-server
	Programmable logic
Controllable Switchgear Devices	1 controlled + 1 displayed
Number Of Setting Groups	4
Monitoring Functions	Trip circuit supervision 74
-	Circuit breaker monitoring
	Relay self-monitoring
Logs And Records	Event recording
Logs And Records	Event recording
	Disturbance recording
	Tripping context
Switchgear Diagnosis Type	CT supervision
	Trip circuit supervision ANSI code: TCS
Connections - Terminals	Screw removable (digital input/output)
	Clamp terminal removable (current transformer)
	Pin removable (voltage transformer)
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Complementary

Operating Threshold	24230 V AC/DC	
Software Name	EcoStruxure Power Device ESetup Easergy Pro	
Web Server	Embedded HTTP server	
Display Type	LCD 128 x 64 pixels with single line diagram	
Number Of Key	2 customizable	
Local Signalling	4 LEDs 8 LEDs programmable	

Standards	IEC
Height	169.5 mm
Width	170 mm
Depth	205 mm
Net Weight	2.5 kg maximum

Environment

Electromagnetic Compatibility	Emission tests conforming to IEC/EN 60255-26 ed. 3 Emission tests class A conforming to CISPR 11 Emission tests class A conforming to CISPR 22 EMC immunity conforming to IEC/EN 60255-26 ed. 3 EMC immunity conforming to EN/IEC 61000-4-18 EMC immunity level 4 conforming to EN/IEC 61000-4-2 EMC immunity level 3 conforming to EN/IEC 61000-4-3 EMC immunity level 4 conforming to EN/IEC 61000-4-5 EMC immunity level 3 conforming to EN/IEC 61000-4-5 EMC immunity level 3 conforming to EN/IEC 61000-4-6 EMC immunity level 3 conforming to EN/IEC 61000-4-6 EMC immunity level 5 conforming to EN/IEC 61000-4-9 EMC immunity conforming to EN/IEC 61000-4-9 EMC immunity conforming to EN/IEC 61000-4-9 EMC immunity conforming to EN/IEC 61000-4-11 EMC immunity conforming to EN/IEC 61000-4-17	
Mechanical Robustness	Vibrations (level: class II) conforming to IEC 60255-21-1 Vibrations: Fc conforming to IEC 60068-2-6 Shocks (level: class II) conforming to IEC 60255-21-2 Shocks: Ea conforming to IEC 60068-2-27 Seismic tests method A (level: class II) conforming to IEC 60255-21-3 Bumps (level: class II) conforming to IEC 60255-21-2 Bumps: Ea conforming to IEC 60068-2-27	
Climatic Withstand	Exposure to dry heat Bb tests conforming to EN/IEC 60068-2-2 Exposure to cold Ad tests conforming to EN/IEC 60068-2-1 Exposure to damp heat in service Db tests conforming to EN/IEC 60068-2-30 Exposure to damp heat in service Cab tests conforming to EN/IEC 60068-2-78	
Ambient Air Temperature For Operation	-4065 °C	
Ambient Air Temperature For Storage	-4070 °C	
Ip Degree Of Protection	IP54 conforming to IEC 60529	
Relative Humidity	095 %, without condensation	
Maximum Operating Altitude	2000 m	
Protective Treatment	Conformal coating	

Packing Units

U	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	21 cm
Package 1 Width	26 cm
Package 1 Length	32 cm
Package 1 Weight	2.498 kg

Contractual warranty

Warranty

Up to 10 years extended warranty (Standard warranty 2 years. Please check with your local SE representative for extended warranty availability and conditions)

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



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Rohs Exemption Information Yes

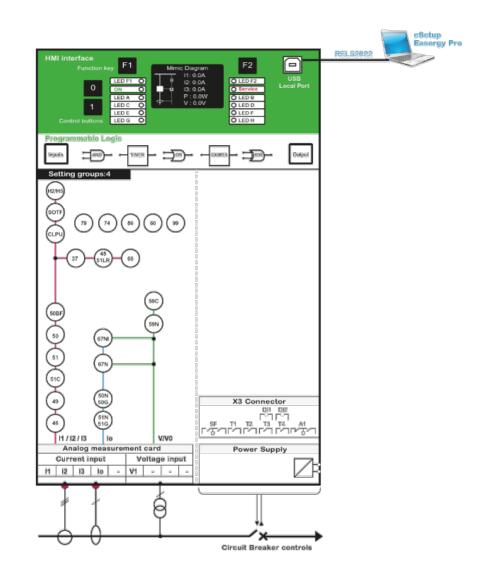
Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

Product data sheet

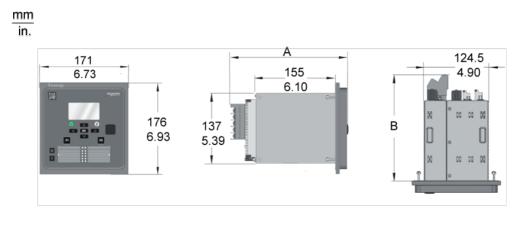
Connections and Schema

Functional View



Dimensions Drawings

Base Unit Dimensions



	A	В
With screw connector	214 mm/8.43"	192 mm/7.6"
With ring-lug connector	226 mm/8.90"	204 mm/8.0"