Specifications



motor protection relay, PowerLogic P3M32 6CT 3Io RINGLUG 4VT 12DI 14DO 110-230V DI110V RS232 2RJ45 ANSI

REL53027

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 4,590.60 USD

Main

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Range of Product	PowerLogic P3	
Product or Component Type	Protection relay	
Relay application	Motor	
product reference	P3M32-CGG1A-KA1NA-BBAAB	
Mounting case size	30TE	
Device mounting	Flush	
Mounting Mode	Flush mounting	
power supply	48230 V AC/DC	
measuring inputs	6 1/5 A CT phase current 2 5/1 A CT residual current 1 1/0.2 A CT residual current 4 100 V/110 V VT voltage	
number of Digital Inputs (DI)	12	
number of analogue inputs	0	
number of Digital Outputs (DO)	14 DO 1 watchdog	
number of analogue outputs	0	
communication ports	Front USB port 1 Rear RJ45 2	
communication protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 IEC 60870-5-103 DNP3 DNP3 TCP Modbus RTU Modbus TCP EtherNet/IP Modbus TCP master SPAbus	
Redundancy communication port protocol	RSTP PRP	
Cybersecurity	Password protection Port hardening	

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

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protection functions

Synchro-check 25 Undervoltage 27 Directional active underpower 32 Phase undercurrent 37 Negative sequence overcurrent 46 Phase sequence 46 Excessive starting time, locked rotor 48/51LR Thermal overload protection 49 Earth fault overcurrent 50N/51N Phase overcurrent 50/51 Breaker failure 50BF Switch ON to fault (SOTF) Capacitor bank unbalance 51C Capacitor overvoltage 59C Overvoltage 59 Earth fault overvoltage 59N Stator earth fault 64S Restricted earth fault 64REF Motor restart inhibition 66 Directional phase overcurrent 67 Directional earth fault 67N Magnetising inrush detection 68F2 H5 detection 68H5 Underfrequency 81/81N Rate of change of frequency 81R Lockout relay 86 Machine differential 87M Programmable stages 99 8 Programmable curve Cold load pick-up Programmable curve 68H5 CT supervision 60 Cold load pick-up 81/81N VT supervision 60FL 8

Arc flash protection	No	
Relay Type	Differential current relay	
·	Differential current relay Current 3-phase Current zero sequence Current negative sequence Current ratio of negative and positive Voltage phase to earth Voltage phase to earth Voltage positive sequence Voltage provide the phase Voltage positive sequence Voltage ratio of negative and positive Short circuit fault reactance Fault location current Earth fault reactance Frequency Active power RMS active power RMS reactive power RMS apparent power Active nergy Active power 2nd, 15th harmonics with THD Cos φ Tan φ Power factor	
	Voltage phasor diagram view Current phasor diagram view Current 2nd, 15th harmonics with THD Voltage 2nd, 15th harmonics with THD	
	Condition monitoring CB wear Apparent power 3-phase RMS apparent power ratio of negative and positive Active energy phase to phase Reactive energy ratio of negative and positive	
	Voltage interruption phasor diagram view	

control functions	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	6 controlled + 6 displayed
number of setting groups	4
monitoring functions	Trip circuit supervision 74
	Circuit breaker monitoring
	Relay self-monitoring
logs and records	Event recording
	Disturbance recording
	Tripping context
Switchgear diagnosis type	CT supervision TCS
	Trip circuit supervision TCS
Connections - terminals	Screw removable (digital input/output)
	Pin removable (voltage transformer)
	Ring lugs fixed (current transformer)

Complementary

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Operating threshold	110230 V AC/DC	
Time synchronisation protocol	SNTP	
Software name	ESetup Easergy Pro virtual simulation test Easergy SmartApp	
Web server	Embedded HTTP server	
Display type	LCD 128 x 128 pixels with single line diagram LCD 128 x 128 pixels with ANSI symbols	
Number of key	2 customizable	
Local signalling	2 LEDs 16 LEDs programmable	
Height	6.9 in (176 mm)	
Width	10.6 in (270 mm)	
Depth	9.06 in (230 mm)	
Net weight	9.3 lb(US) (4.2 kg) maximum	

Environment

climatic withstand	Exposure to dry heat Bb EN/IEC 60068-2-2 Exposure to cold Ad EN/IEC 60068-2-1 Exposure to damp heat in service Db EN/IEC 60068-2-30 Exposure to damp heat in service Cab EN/IEC 60068-2-78
Mechanical robustness	Vibrations class II) IEC 60255-21-1 VibrationsFc IEC 60068-2-6 Shocks class II) IEC 60255-21-2 ShocksEa IEC 60068-2-27 Seismic tests method A class II) IEC 60255-21-3

Electromagnetic compatibility	Emission tests IEC/EN 60255-26 ed. 3
	Emission tests class A CISPR 11
	Emission tests class A CISPR 22
	EMC immunity IEC/EN 60255-26 ed. 3
	EMC immunity EN/IEC 61000-4-18
	EMC immunity level 4 EN/IEC 61000-4-2
	EMC immunity level 3 EN/IEC 61000-4-3
	EMC immunity level 4 EN/IEC 61000-4-4
	EMC immunity level 3 EN/IEC 61000-4-5
	EMC immunity level 3 EN/IEC 61000-4-6
	EMC immunity EN/IEC 61000-4-8
	EMC immunity level 5 EN/IEC 61000-4-9
	EMC immunity EN/IEC 61000-4-29
	EMC immunity EN/IEC 61000-4-11
	EMC immunity EN/IEC 61000-4-17
	EMC immunity IEC 60255-22-1
	EMC immunity IEC 60255-22-2
	EMC immunity IEC 60255-22-3
	EMC immunity IEC 60255-22-4
	EMC immunity IEC 60255-22-5
	EMC immunity IEC 60255-22-6
	EMC immunity IEC 60255-27
	EMC immunity class III IEC 60255-5
	EMC immunity EN/IEC 60255-1
Ambient air temperature for operation	-40149 °F (-4065 °C)
IP degree of protection	IP54 front IEC 60529
maximum operating altitude	6561.68 ft (2000 m)
Protective treatment	Conformal coating
Relative humidity	095 %, without condensation

Ordering and shipping details

Category	US1PL1S11405
Discount Schedule	PL1S
GTIN	3606486797297
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.75 in (40 cm)
Package 1 Width	11.81 in (30 cm)
Package 1 Length	11.81 in (30 cm)
Package 1 Weight	10.1 lb(US) (4.6 kg)

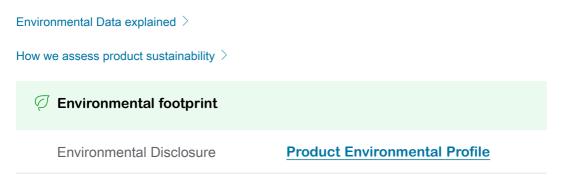
Contractual warranty

Warranty

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

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.



Use Better

S Materials and Substances	
Packaging made with recycled cardboard	Νο
Packaging without single use plastic	Νο
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration

Use Again

\bigcirc Repack and remanufacture	
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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Dec 23, 2024