Specifications



motor protection relay, PowerLogic P3M32 6CT 3lo ringlug 4VT 12DI 14DO 110-230V DI110V RS485 RJ45 ANSI

REL52121

Product availability: Stock - Normally stocked in distribution facility

Price*: 4,877.81 USD

Main

Mann		
Range of Product	PowerLogic P3	
Product or Component Type	Protection relay	
Relay application	Motor	
product reference	P3M32-CGG1A-AA1FA-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 1 Rear RS485 1	
communication protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 DNP3 TCP Modbus TCP EtherNet/IP IEC 60870-5-103 DNP3 Modbus RTU DeviceNet SPAbus	
Cybersecurity	Password protection	

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.

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 CT supervision 60 VT supervision 60FL

Arc flash protection	No
Relay Type	Differential current relay
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
	Condition monitoring CB wear
	Voltage interruption

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/VT supervision Trip circuit supervision TCS
Connections - terminals	Screw removable (digital input/output) Ring lugs fixed (current transformer) Pin removable (voltage transformer)

Complementary

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Operating threshold	110 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 Bd 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 IEC 60255-22-1
	EMC immunity level 4 EN/IEC 61000-4-2
	EMC immunity IEC 60255-22-2
	EMC immunity level 3 EN/IEC 61000-4-3
	EMC immunity IEC 60255-22-3
	EMC immunity level 4 EN/IEC 61000-4-4
	EMC immunity IEC 60255-22-4
	EMC immunity level 3 EN/IEC 61000-4-5
	EMC immunity IEC 60255-22-5
	EMC immunity level 3 EN/IEC 61000-4-6
	EMC immunity IEC 60255-22-6
	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 60255-27
	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	3606481499943
Returnability	No
Country of origin	US

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)

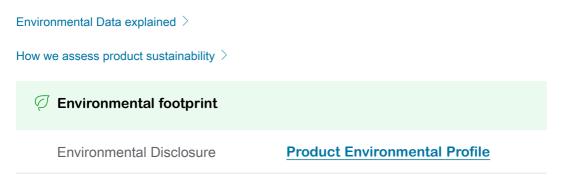
Contractual warranty

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.

Life Is On Schneider

Dec 23, 2024