

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

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 Sensors	0 temperature sensor(s) 0 arc sensor(s)	
Number Of Digital Inputs (Di)	12	
Number Of Digital Outputs (Do)	14 DO 1 watchdog	
Number Of Analogue Inputs	0	
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 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

Stating Statin

H5 detection 68H5 Underfrequency 81/81N

Rate of change of frequency 81R

Magnetising inrush detection 68F2

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

RMS active power Reactive power

Active power

RMS reactive power Apparent power RMS apparent power

Active energy Reactive energy

 $Cos \ \phi$ $Tan \ \phi$ 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

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	6.93 in (176 mm)
Width	10.63 in (270 mm)
Depth	9.06 in (230 mm)
Net Weight	9.26 lb(US) (4.2 kg) maximum

Environment

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
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
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
Ambient Air Temperature For Operation	-40149 °F (-4065 °C)
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)
Ip Degree Of Protection	IP54 front IEC 60529
Relative Humidity	095 %, without condensation
Maximum Operating Altitude	6561.68 ft (2000 m)
Protective Treatment	Conformal coating

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	10.14 lb(US) (4.6 kg)

Contractual warranty

Warranty

Apr 25, 2024

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

Sustainability

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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

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
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