

## generator protection relay, PowerLogic P3G32 6CT 3lo ringlug 4VT 12DI 14DO 110-230V DI110V RS485 RJ45 ANSI

REL52126

Product availability: Stock - Normally stocked in distribution facility

Price\*: 6,007.81 USD

### Main

Range Of Product	PowerLogic P3	
Product Or Component Type	Protection relay	
Relay Application	Generator	
Product Reference	P3G32-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**

Underimpedance 21G Overfluxing (V/Hz) 24 Synchro-check 25

Undervoltage 27

Positive sequence undervoltage 27P Directional active underpower 32

Field loss (underimpedance) 40

Under reactance 21/40

Negative sequence overcurrent 46 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 Voltage-restrained overcurrent 51V

Overvoltage 59

Earth fault overvoltage 59N Restricted earth fault 64REF

Stator earth fault 64S

Directional phase overcurrent 67 Directional earth fault 67N

Magnetising inrush detection 68F2

H5 detection 68H5 Pole slip 78PS Underfrequency 81/81N

Rate of change of frequency 81R

Lockout relay 86 Machine differential 87M Programmable stages 99 8 Programmable curve CT supervision 60

Cold load pick-up VT supervision 60FL

#### **Arc Flash Protection**

### 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

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 + 8 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	3606481465603	
Returnability	No	
Country Of Origin	FI	

# **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

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

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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