

generator protection relay, PowerLogic P3G32 6CT 3lo ringlug 4VT 6DI 9DO 24-48V DI24V RS485 RJ45 ANSI

REL53097

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

Price*: 5,295.56 USD

Main

Range of Product	PowerLogic P3
Product or Component Type	Protection relay
Relay application	Generator
product reference	P3G32-DGA1A-AA1FA-BAAAB
Mounting case size	30TE
Device mounting	Flush
Mounting Mode	Flush mounting
power supply	2448 V 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)	6
number of analogue inputs	0
number of Digital Outputs (DO)	10 DO 1 watchdog
number of analogue outputs	0
communication ports	Front USB port 1 Rear RS485 1 Rear RJ45 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

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

Port hardening

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 Switch ON to fault (SOTF) 81/81N 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 Cold load pick-up CT supervision 60 VT supervision 60FL Programmable curve 99 8

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
	Short circuit fault reactance phasor diagram view
	Active power RMS active power
	Reactive power
	Fault location current 3-phase
	RMS reactive power
	Apparent power
	RMS apparent power Active energy
	Reactive energy
	Earth fault reactance positive sequence
	Cos φ
	Tan φ
	Power angle
	Power factor Voltage phasor diagram view
	Current phasor diagram view
	Frequency ratio of negative and positive
	Current 2nd, 15th harmonics with THD
	Voltage 2nd, 15th harmonics with THD
	Condition monitoring CB wear
	Active power phase to earth Voltage interruption
	RMS active power zero sequence
	Reactive power positive sequence
	RMS reactive power negative sequence
	Apparent power ratio of negative and positive
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	3 controlled + 3 displayed
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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
omiongour unagnosio typo	Trip circuit supervision TCS
Connections - terminals	Caraca caraca calcia (ali nita) in national de calcia de calci
Connections - terminals	Screw removable (digital input/output) Pin removable (voltage transformer)
	Ring lugs fixed (current transformer)
Complementary	
Complementary	
Operating threshold	24 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

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 3 EN/IEC 61000-4-4 EMC immunity level 3 EN/IEC 61000-4-5 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 EN/IEC 61000-4-9 EMC immunity EN/IEC 61000-4-11 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 60255-27 EMC immunity IEC 60255-27 EMC immunity IEC 60255-27 EMC immunity 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

Ordering and shipping details

0...95 %, without condensation

Relative humidity

Category	US1PL1S11405
Discount Schedule	PL1S
GTIN	3606487107132

Returnability	No	
Country of origin	IV	

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	11.7 lb(US) (5.3 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.

Environmental Data explained >

How we assess product sustainability >

Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration

Use Again

○ 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.

Take-back No