

generator protection relay, PowerLogic P3G30 3CT 2lo ringlug 4VT 24DI 21DO 24-48V DI24V RS232 RJ45 ANSI

REL53156

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

Price*: 4,751.28 USD

Main

Range of Product	PowerLogic P3
Product or Component Type	Protection relay
Relay application	Feeder
product reference	P3G30-DGGGG-AA1CA-BAAAB
Mounting case size	30TE
Device mounting	Flush
Mounting Mode	Flush mounting
power supply	2448 V AC/DC
measuring inputs	3 1/5 A CT phase current 1 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)	24
number of analogue inputs	0
number of Digital Outputs (DO)	21 DO 1 watchdog
number of analogue outputs	0
communication ports	Front USB port 1 Rear RS232 1 Rear RJ45 1
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
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

Synchro-check 25 8

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) 64S

Overvoltage 59

Earth fault overvoltage 59N

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

Programmable stages 99 8

Programmable curve

Cold load pick-up

CT supervision 60

VT supervision 60FL

Programmable curve 86

Arc flash protection

No

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

Reactive power

Active power phasor diagram view

RMS reactive power

Apparent power

RMS apparent power

Active energy

Reactive energy

Cos φ

RMS reactive power zero sequence

Tan φ

Power angle

Power factor

Voltage phasor diagram view

Current phasor diagram view

Current 2nd, 15th harmonics with THD Apparent power positive sequence

Voltage 2nd, 15th harmonics with THD

Condition monitoring CB wear

Voltage interruption

RMS apparent power ratio of negative and positive

Active energy positive sequence

Reactive energy negative sequence

Cos φ ratio of negative and positive

Condition monitoring CB wear phasor diagram view Voltage interruption 2nd, 15th harmonics with THD

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

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

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	3606487107040
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	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 footprint	
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
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

