Specifications



generator protection relay, PowerLogic P3G30 3CT 2Io ringlug 4VT 24DI 21DO 24-48V DI24V RS485 RJ45 ANSI

REL53150

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

Price*: 4,895.37 USD

Main

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Range of Product	PowerLogic P3	
Product or Component Type	Protection relay	
Relay application	Feeder	
product reference	P3G30-DGGGG-AA1FA-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 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	

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 Negative sequence overcurrent 46 Under reactance 21/40 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 Switch ON to fault (SOTF) 64S Voltage-restrained overcurrent 51V 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 Programmable curve 99 8 VT supervision 60FL

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
	RMS active power
	Reactive power
	RMS reactive power
	Reactive power 2nd, 15th harmonics with THD
	Apparent power
	RMS apparent power
	Active energy
	Reactive energy
	Cos φ
	Tan φ
	Power angle
	RMS reactive power zero sequence
	Power factor
	Voltage phasor diagram view
	Current phasor diagram view
	Apparent power positive sequence
	Current 2nd, 15th harmonics with THD
	Condition monitoring CB wear
	Voltage interruption
	RMS apparent power negative sequence
	Active energy phase to phase
	Reactive energy positive sequence

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

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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	3606487106999
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)

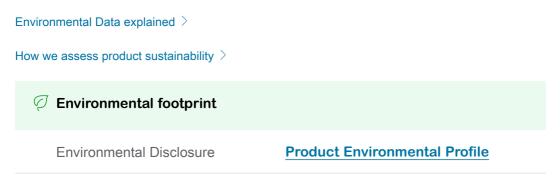
Contractual warranty

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.



Use Better

S Materials and Substances	
Packaging made with recycled cardboard	Yes
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.

Dec 23, 2024