

# Product datasheet

Specifications



## generator protection relay, PowerLogic P3G30

P3G30

### Main

<b>Range Of Product</b>	PowerLogic P3
<b>Relay Application</b>	Generator
<b>Product Reference</b>	P3G30
<b>Device Mounting</b>	Flush
<b>Mounting Support</b>	Rack
<b>Mounting Mode</b>	Flush mounting
<b>Power Supply</b>	110...230 V AC/DC 50/60 Hz tolerance: + 10 % - 15 % 24...48 V AC/DC 50/60 Hz tolerance: + 10 % - 15 %
<b>Measuring Inputs</b>	: 1/5 A CT 36 : 1/0.2 A CT
<b>Number Of Digital Outputs (Do)</b>	22 digital
<b>Communication Protocols</b>	TCP/IP all counters conforming to 60255-5 DNP3 - DNP3 TCP DeviceNet Ethernet IP/Modbus TCP Modbus RTU Profibus DP SPABus
<b>Redundancy Communication Port Protocol</b>	PRP RSTP
<b>Cybersecurity</b>	Enable/disable communication ports Firmware signature Password protection Port hardening Role-based access control

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>Protection Functions</b>	Phase overcurrent 50/51 Phase overcurrent 50/51 22 Directional phase overcurrent 67 Earth fault overcurrent 50N/51N Directional earth fault 67N Transient earth fault 67NI Capacitor bank unbalance 51C Current protection 46 I2/I1 Cold load pick-up CPLU 50/51 Harmonic distortion 50/51 Circuit breaker protection 50 BF Switch ON to fault (SOTF) 50/51 Underload 32P Fault locator 21FL Recloser 79 Undercurrent 37 Locked rotor for starting 48/51LR Motor restart inhibition 66 Capacitor overvoltage 59C Negative sequence overcurrent 46 Overvoltage (L-L or L-N) 59 Undervoltage (L-L or L-N) 27 Positive sequence undervoltage 27P Earth fault overcurrent 51N/51G Underfrequency 81 Overfrequency 81O Rate of change of frequency 81R Synchro-check 25 Lockout 86 CT supervision 60 VT supervision 60 Programmable stages 99 Programmable curve 99 Logic selectivity Excessive starting time, locked rotor 48/51LR Thermal overload for machines 49T Underimpedance 21G Directional active underpower 32P Field loss (underimpedance) 40 Restricted earth fault 64REF Pole slip 78PS Stator earth fault 64S
<b>Relay Type</b>	Multifunction control relay
<b>Controllable Switchgear Devices</b>	6 controlled + 8 displayed
<b>Number Of Setting Groups</b>	User
<b>Monitoring Functions</b>	Trip circuit supervision 74 Circuit breaker monitoring Relay self-monitoring
<b>Switchgear Diagnosis Type</b>	Cumulative breaking current (2 configurable buttons) Trip circuit supervision Nb of operations, operating time, charging time, nb of racking out operations VT supervision CT supervision
<b>Connections - Terminals</b>	Clamps terminal flush mounting Ring lugs

## Complementary

<b>Input Power Interruption</b>	50 ms
<b>Maximum Power Consumption In W</b>	20 W typical 28 W maximum
<b>Time Synchronisation Protocol</b>	SNTP IIRIG-B
<b>Software Name</b>	Easergy SmartApp ESetup Easergy Pro

<b>Number Of Key</b>	2 contextual key 1 home 1 for LED test 1 local/remote 5 for navigation 2 for switchgear control
<b>Local Signalling</b>	2 x LED red status and alert 16 x LED green/red/orange programmable
<b>Communication Compatibility</b>	IEC 61850 Modbus RTU DNP3 IEC 60870-5-103 IEC 61850 goose message Modbus TCPIP Modbus
<b>Device Connection</b>	Extension port straight Serial port straight Serial port fiber optic Ethernet port straight Ethernet port fiber optic
<b>Standards</b>	EN 60255-26 EN 60255-27
<b>Height</b>	Total: 177 mm
<b>Width</b>	Total: 264 mm
<b>Depth</b>	Total : 208 mm
<b>Net Weight</b>	4.2 kg minimum

## Environment

<b>Ip Degree Of Protection</b>	IP54 conforming to IEC 60529
<b>Relative Humidity</b>	0...95 % at -40...60 °C

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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.

**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 RoHS/REACH

## Well-being performance

Mercury Free

RoHS Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope)

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](#)