Product datasheet

Specifications

generator and differential protection relay, PowerLogic P3G30

P3G32

Main

Range of product	PowerLogic P3
relay application	Generator
product reference	P3G32
Device mounting	Flush
mounting support	Rack
mounting mode	Flush mounting
power supply	110...230 V AC/DC 50/60 Hz tolerance: + 10 % - 15 % 24...48 V AC/DC 50/60 Hz tolerance: + 10 % - 15 %
measuring inputs	: 1/5 A CT 36 : 1/0.2 A CT
number of Digital Outputs (DO)	22 digital
communication protocols	TCP/IP all counters conforming to 60255-5 DNP3 - DNP3 TCP DeviceNet Ethernet IP/Modbus TCP Modbus RTU Profibus DP SPAbus
Redundancy communication port protocol	PRP RSTP
Cybersecurity	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

protection functions	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 Differential protection 87M
Relay type	Multifunction control relay
controllable switchgear devices	6 controlled + 8 displayed
number of setting groups	User
monitoring functions	Trip circuit supervision 74 Circuit breaker monitoring Relay self-monitoring
Switchgear diagnosis type	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
Connections - terminals	Clamps terminal flush mounting Ring lugs

Complementary

input power interruption	50 ms
Maximum power consumption in W	20 W typical 28 W maximum
Time synchronisation protocol	SNTP IRIG-B
Software name	Easergy SmartApp ESetup Easergy Pro

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

Environment

IP degree of protection	IP54 conforming to IEC 60529
Relative humidity	0…95 % at -40…60 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Sustainability

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >

Transparency

RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes

Certifications & Standards

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