Specifications



PowerLogic P5M30 48-250V 3CT 2Io 4VT 22DI-14DO 6 Arc Sensors Advanced Logic and Cybersec Backup memory ANSI

REL50478

EAN Code: 3606482117839

Main

Wall		
Range of product	PowerLogic P5	
Product or component type	Protection and control relay	
Relay application	Universal	
product reference	P5M30-CCCE-GAAAH-BAFK	
Mounting case size	30TE	
Device mounting	Flush	
Mounting support	Rack	
Mounting mode	Withdrawable	
power supply	48230 V AC/DC 48250 V DC	
measuring inputs	: 1/5 A CT phase current 3 : 1/5 A CT residual current 1 : 100 V/110 V VT voltage 4 : voltage 4 : digital 22	
Number of sensors	0 temperature sensor(s) 0 arc sensor(s)	
number of Digital Inputs (DI)	16	
number of analogue inputs	0	
number of Digital Outputs (DO)	1 watchdog 8 watchdog	
number of analogue outputs	0	
communication ports	USB port 1 front RJ45 2 rear with backup memory	
communication protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 DNP3 TCP Modbus TCP EtherNet/IP	
Redundancy communication port protocol	RSTP PRP	
Cybersecurity	Port hardening Firmware signature Client IP address filter Secured communication with assciated tools Security policy management Role-based access control Security log LDAP RADIUS based user authentication IEC 62443-4-2 SL1	

protection functions

Phase overcurrent 50/51 Directional phase overcurrent 67 Earth fault overcurrent 50N/51N Directional earth fault 67N Transient earth fault 67NI Capacitor bank unbalance 51C Broken conductor 46 I2/I1 Cold load pick-up 64REF Switch ON to fault (SOTF) 46 I2/I1 Breaker failure 50BF Directional active underpower 37P Fault locator 21FL Recloser 79 Phase undercurrent 37 Excessive starting time, locked rotor 48/51LR Motor restart inhibition 66 Capacitor overvoltage 59C Negative sequence overcurrent 46 Overvoltage 59 Undervoltage 27 Positive sequence undervoltage 27P Earth fault overvoltage 59N Underfrequency 81/81N Rate of change of frequency 81R Synchro-check 25 Lockout relay 86 CT supervision 60 VT supervision 60 H2 detection 68H2 H5 detection 68H5 Negative sequence overcurrent 47 Programmable stages 99 Programmable curve

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 negative sequence Fault location current phasor diagram view Earth fault reactance Frequency Active power RMS active power Reactive power RMS reactive power Apparent power RMS apparent power Active energy Reactive energy Cos φ Tan φ Power angle Power factor Voltage phasor diagram view Current phasor diagram view Current 2nd, 15th harmonics with THD Voltage 2nd, 15th harmonics with THD Voltage interruption Condition monitoring CB wear 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	4 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/VT supervision ANSI code: 60 CT supervision Trip circuit supervision ANSI code: TCS	
Connections - terminals	Screw removable (digital input/output) Ring lugs removable (current transformer) Pin removable (voltage transformer) Ring lugs (voltage transformer)	

Complementary

Operating threshold	24230 V AC/DC	
Time synchronisation protocol	SNTP	
Software name	EcoStruxure Power Device: virtual simulation test ESetup Easergy Pro	
Web server	Embedded HTTP server	
Display type	LCD 128 x 64 pixels with single line diagram	
Number of key	2 customizable	
Local signalling	10 x 4 LEDs tri-colour programmable 4 x 8 LEDs red programmable	
Standards	IEC	
Height	169.5 mm	
Width	170 mm	
Depth	205 mm	
Net weight	2.5 kg maximum	

Environment

climatic withstand	Exposure to dry heat Bb tests conforming to EN/IEC 60068-2-2 Exposure to cold Ad tests conforming to EN/IEC 60068-2-1 Exposure to damp heat in service Db tests conforming to EN/IEC 60068-2-30 Exposure to damp heat in service Cab tests conforming to EN/IEC 60068-2-78 Temperature variation conforming to IEC 60068-2-14 Salt mist conforming to IEC 60068-2-52 Influence of corrosion/gas test 2 conforming to IEC 60068-2-60 Influence of corrosion/gas test 4 conforming to IEC 60068-2-60 Stationary use at weatherprotected locations conforming to IEC 60721-3-3
Mechanical robustness	Vibrations (level: class II) conforming to IEC 60255-21-1 Vibrations (level: class 2) : Fc conforming to IEC 60068-2-6 Shocks (level: class II) conforming to IEC 60255-21-2 Shocks: Ea conforming to IEC 60068-2-27 Seismic tests method A (level: class II) conforming to IEC 60255-21-3 Bumps (level: class II) conforming to IEC 60255-21-2 Bumps: Ea conforming to IEC 60068-2-27

Electromagnetic compatibility	Emission tests class A conforming to IEC/EN 60255-26 ed. 3 Emission tests class A conforming to CISPR 11 Emission tests class A conforming to CISPR 32 EMC immunity conforming to IEC/EN 60255-26 ed. 3 EMC immunity conforming to EN/IEC 61000-4-18 EMC immunity level 4 conforming to EN/IEC 61000-4-2 EMC immunity level 3 conforming to EN/IEC 61000-4-3 EMC immunity level 3 conforming to EN/IEC 61000-4-3 EMC immunity level 3 conforming to EN/IEC 61000-4-5 EMC immunity level 3 conforming to EN/IEC 61000-4-6 EMC immunity level 3 conforming to EN/IEC 61000-4-8 EMC immunity level 3 conforming to EN/IEC 61000-4-8 EMC immunity level 4 level 5 conforming to EN/IEC 61000-4-9 EMC immunity level 4 conforming to EN/IEC 61000-4-19 EMC immunity level 3 conforming to EN/IEC 61000-4-11 EMC immunity level 5 conforming to EN/IEC 61000-4-17 EMC immunity level 5 conforming to EN/IEC 61000-4-9	
	EMC immunity level 5 conforming to IEC 61000-4-10 EMC immunity conforming to IEC 61000-4-12 EMC immunity level 4 conforming to IEC 61000-4-16 EMC immunity level 3 conforming to IEC 61000-4-18	
Ambient air temperature for operation	-4065 °C(16 h) -4070 °C(96 h)	
IP degree of protection	IP54 conforming to IEC 60529	
maximum operating altitude	2000 m	
Protective treatment	Conformal coating conforming to IEC 60068-2-52:Kb/1 Conformal coating conforming to IEC 60068-2-60:Ke Conformal coating conforming to IEC 60721-3-3:3C2	
Relative humidity	095 % at 40 °C, without condensation, 56 days 9395 % at 2555 °C, 6 cycles, 12 + 12 hours	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30.0 cm
Package 1 Width	30.0 cm
Package 1 Length	35.0 cm
Package 1 Weight	4.5 kg

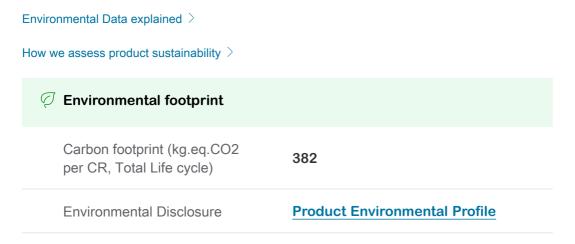
Contractual warranty

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	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration

Use Again

\bigcirc Repack and remanufacture	
Circularity Profile	End of Life Information

Life Is On Schneider

 WEEE
 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

 Take-back
 No