

Product data sheet

Specifications



PowerLogic P5F30 48-250V 3CT 2Io 4VT 15DI-15DO 6 Arc sensors Adv Logic Backup ANSI

REL50528

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

Main

Range of Product	PowerLogic P5
Product or Component Type	Protection and control relay
Relay application	Feeder - directional over current
product reference	P5F30-CCCD-GAAAH-BAFK
Mounting case size	30TE
Device mounting	Flush
Mounting Mode	Withdrawable
power supply	48...250 V DC 100...230 V AC
measuring inputs	3 1/5 A CT phase current 1 1 A CT 1 1/5 A CT residual current 4 voltage input VT voltage
Number of sensors	0 temperature sensor(s) 6 arc sensor(s)
number of Digital Inputs (DI)	15
number of analogue inputs	0
number of Digital Outputs (DO)	14 DO 1 watchdog
number of analogue outputs	0
communication ports	Rear extension port 1 with backup memory Front USB port 2
communication protocols	-
Cybersecurity	Port hardening Firmware signature Client IP address filter Secured communication with associated tools Security policy management Role-based access control Security log LDAP RADIUS based user authentication IEC 62443-4-2 SL1

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 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) 51C Breaker failure 50BF Directional active underpower 37P Fault locator 21FL Recloser 79 Restricted earth fault 64REF Earth fault wattmetric 32N Neutral admittance 21YN Negative sequence overcurrent 46 Overvoltage 59 Undervoltage 27 Earth fault overvoltage 59N Overfrequency 81/81N 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 99 Programmable logic
Arc flash protection	Yes
measurement functions	Current 3-phase Current zero sequence Current positive sequence Current negative sequence Current ratio of negative and positive Voltage zero sequence Voltage positive sequence Voltage negative sequence Voltage 3-phase Voltage residual Frequency Voltage phasor diagram view Current phasor diagram view Current 2nd, 15th harmonics with THD
control functions	Switchgear control and monitoring Programmable switchgear interlocking Local/remote control 2 function keys Programmable logic
controllable switchgear devices	6 controlled + 2 monitored objects
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 Relay maintenance
Switchgear diagnosis type	CT supervision 60 VT supervision 60 Trip circuit supervision 74
Connections - terminals	Pin terminal (digital input/output) Ring lugs (analog inputs and outputs)

Complementary

Software name	ESetup Easergy Pro virtual simulation test
Display type	LCD 480 x 272 pixels
Number of key	7 customizable
Local signalling	4 x LED 10 x LED tri-colour programmable
Height	6.9 in (176 mm)
Width	6.0 in (152 mm)
Depth	8.6 in (219 mm)
Net weight	7.7 lb(US) (3.5 kg)

Environment

climatic withstand	Exposure to cold IEC 60068-2-1 Exposure to dry heat IEC 60068-2-2 Exposure to damp heat in service IEC 60068-2-78 Exposure to damp heat in service IEC 60068-2-30 Temperature variation IEC 60068-2-14 Salt mist IEC 60068-2-52 Influence of corrosion/gas test 2 IEC 60068-2-60 Influence of corrosion/gas test 4 IEC 60068-2-60 Influence of corrosion/gas test 2 IEC 60721-3-3 Influence of corrosion/gas test 4 IEC 60721-3-3
Mechanical robustness	Vibrations class 2) IEC 60255-21-1 Vibrations GOST 17516.1 Vibrations IACS E10 Shocks class 2) IEC 60255-21-2 Earthquakes class 2) IEC 60255-21-3
Electromagnetic compatibility	Emission tests class A CISPR 11 Emission tests class A CISPR 32 Emission tests IACS E10 EMC immunity class 4 IEC 61000-4-2 EMC immunity class 4 ANSI C37.90.3 EMC immunity level 3 IEC 61000-4-3 EMC immunity ANSI C37.90.2 EMC immunity GOST 32137 EMC immunity GOST 30804.4.3 EMC immunity IACS E10 EMC immunity level 5 IEC 61000-4-8 EMC immunity level 5 IEC 61000-4-9 EMC immunity level 5 IEC 61000-4-10 EMC immunity level 3 IEC 61000-4-6 EMC immunity level 3 IEC 61000-4-18 EMC immunity ANSI C37.90.1 EMC immunity IEC 61000-4-12 EMC immunity GOST 30804.4.12 EMC immunity level 4 IEC 61000-4-16 EMC immunity level 4 IEC 61000-4-4 EMC immunity level 4 IEC 61000-4-5
Ambient air temperature for operation	-40...185 °F (-40...85 °C) 16 h) -40...158 °F (-40...70 °C) 96 h)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
IP degree of protection	IP54 IEC 60529
maximum operating altitude	6561.68 ft (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	0...93 % at 104 °F (40 °C), without condensation, 56 days 93...95 % at 77...131 °F (25...55 °C), 6 cycles, 12 + 12 hours

Ordering and shipping details

Category	US1PL1S11406
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Discount Schedule	PL1S
GTIN	3606487521020
Returnability	No
Country of origin	LV

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.200 in (18.288 cm)
Package 1 Width	10.700 in (27.178 cm)
Package 1 Length	14.500 in (36.830 cm)
Package weight(Lbs)	9.751 lb(US) (4.423 kg)

Contractual warranty

Warranty (in months)	24
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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

Total lifecycle Carbon footprint	179 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	171 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	5 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	7e74021a-7de9-46d1-8b18-7794e721876f
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	27
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.