

PowerLogic P5F30 24-48V 3CT 2lo 4VT 22DI-14DO 6 Arc Sensors Advanced Logic and Cybersec Backup memory ANSI

REL50468

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	Universal	
product reference	P5F30-CCDE-GAAAH-BAFK	
Mounting case size	30TE	
Device mounting	Flush	
Mounting Support	Rack	
Mounting Mode	Withdrawable	
power supply	48230 V AC/DC	
measuring inputs	3 1/5 A CT phase current 1 1/5 A CT residual current 4 100 V/110 V VT voltage 4 voltage 22 digital	
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	Front USB port 1 Rear RJ45 2 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	rt 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	

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

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

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 60 CT supervision Trip circuit supervision 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	6.7 in (169.5 mm)	
Width	6.7 in (170 mm)	
Depth	8.07 in (205 mm)	
Net weight	5.5 lb(US) (2.5 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	
	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	
	Stationary use at weatherprotected locations IEC 60721-3-3	
Mechanical robustness	Vibrations class II) IEC 60255-21-1	
	Vibrations class 2) Fc IEC 60068-2-6	
	Shocks class II) IEC 60255-21-2	
	ShocksEa IEC 60068-2-27	

ShocksEa IEC 60068-2-27
Seismic tests method A class II) IEC 60255-21-3
Bumps class II) IEC 60255-21-2
BumpsEa IEC 60068-2-27

Electromagnetic compatibility	Emission tests class A IEC/EN 60255-26 ed. 3	
	Emission tests class A CISPR 11	
	Emission tests class A CISPR 32	
	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 level 3 EN/IEC 61000-4-8	
	EMC immunity level 4 level 5 EN/IEC 61000-4-9	
	EMC immunity level 4 EN/IEC 61000-4-29	
	EMC immunity level 3 EN/IEC 61000-4-11	
	EMC immunity level 5 EN/IEC 61000-4-17	
	EMC immunity level 5 IEC 61000-4-9	
	EMC immunity level 5 IEC 61000-4-10	
	EMC immunity IEC 61000-4-12	
	EMC immunity level 4 IEC 61000-4-16	
	EMC immunity level 3 IEC 61000-4-18	
Ambient air temperature for	-40149 °F (-4065 °C) 16 h)	
operation	-40158 °F (-4070 °C) 96 h)	
Ambient air temperature for storage	-40158 °F (-4070 °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	095 % at 104 °F (40 °C), without condensation, 56 days	
	9395 % at 77131 °F (2555 °C), 6 cycles, 12 + 12 hours	

Ordering and shipping details

Category	US1PL1S11406
Discount Schedule	PL1S
GTIN	3606482117754
Returnability	No
Country of origin	LV

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	11.81 in (30.0 cm)
Package 1 Width	11.81 in (30.0 cm)
Package 1 Length	13.78 in (35.0 cm)
Package weight(Lbs)	9.9 lb(US) (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))



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	
Carbon footprint (kg CO2 eq, Total Life cycle)	382
Environmental Disclosure	Product Environmental Profile

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	7e74021a-7de9-46d1-8b18-7794e721876f
REACh Regulation	REACh Declaration
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 Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No