

PowerLogic P5F30 24-48V 3CT 2lo 4VT 31DI-15DO 3 Arc Sensors Advanced Logic and Cybersec Backup memory ANSI

REL50472

EAN Code: 3606482117792

Main

Range of product	PowerLogic P5	
Product or component type	Protection and control relay	
Relay application	Universal	
product reference	P5F30-CEDE-GAAAH-BAFK	
Mounting case size	30TE	
Device mounting	Flush	
Mounting support	Rack	
Mounting mode	Withdrawable	
power supply	48230 V AC/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 31	
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) 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 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

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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 4 conforming to EN/IEC 61000-4-4
	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 4 level 5 conforming to EN/IEC 61000-4-9
	EMC immunity level 4 conforming to EN/IEC 61000-4-29
	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 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	-4065 °C (16 h)
operation	-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))



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.eq.CO2 per CR, Total Life cycle)	402
Environmental Disclosure	Product Environmental Profile

Use Better

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)
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information

WEEE



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

Take-back

No