

# PowerLogic™ P5F30 48-250V 3CT 2lo 4VT 16DI-12DO

REL50404

EAN Code: 3606489487911

# Main

Range of product	PowerLogic P5	
Product or component type	Protection and control relay	
Relay application	Feeder - directional over current	
product reference	P5F30-BACB-GAAAA-BAEA	
Mounting case size	30TE	
Device mounting	Flush	
Mounting mode	Withdrawable	
power supply	48250 V DC 100230 V AC	
measuring inputs	: 1/5 A CT phase current 3 : 1/5 A CT residual current 1 : 1 A CT residual current 1 : VT voltage 4	
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)	11 DO 1 watchdog	
number of analogue outputs	0	
communication ports	USB port 2 front	
communication protocols	-	
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	Phone overcurrent 50/51
protection functions	Phase overcurrent 50/51
	Directional phase overcurrent 67
	Earth fault overcurrent 50N/51N
	Restricted earth fault 64REF
	Directional earth fault 67N
	Transient earth fault 67NI
	Neutral admittance 21YN
	Earth fault wattmetric 32N
	Capacitor bank unbalance 51C
	Broken conductor 46 I2/I1
	Current unbalance 46 I2/I1
	Cold load pick-up
	Switch ON to fault (SOTF)
	H2 detection
	H5 detection
	Breaker failure 50BF
	Directional active underpower 37P
	Fault locator 21FL
	Recloser 79
	Negative sequence overcurrent 46
	Overvoltage 59
	Undervoltage 27
	Earth fault overvoltage 59N
	Underfrequency 81/81N
	Rate of change of frequency 81R
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	Synchro-check 25
	Lockout relay 86
	CT supervision 60
	VT supervision 60
	Programmable stages 99
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	Programmable logic
	Programmable curve
measurement functions	Current 3-phase
	Current zero sequence
	Current positive sequence
	Current negative sequence
	Current ratio of negative and positive
	Phasor diagram of currents or voltages
	Current 2nd, 15th harmonics with THD
	Voltage 3-phase
	Voltage residual
	Voltage zero sequence
	Voltage positive sequence
	Voltage negative sequence
	Frequency
control functions	Switchgear control and monitoring
	Programmable switchgear interlocking
	Local/remote control
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controllable switchgear devices	6 controlled + 2 monitored objects
controllable owneringed devices	o controlled + 2 monitored objects
number of setting groups	4
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monitoring functions	Trip circuit supervision 74
	Circuit breaker monitoring
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	Relay self-monitoring
In the second second	
logs and records	Event recording
	Disturbance recording
	Tripping context
	Relay maintenance
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Switchgear diagnosis type	CT/VT supervision ANSI code: 60
3,1	Trip circuit supervision ANSI code: 74
Connections - terminals	Screw (digital input/output)
	Ring lugs (analog inputs and outputs)
	Tang lago (analog inputo and outputo)
0	
Complementary	
Software name	ESetup Easergy Pro: virtual simulation test
Software name	ESetup Easergy Pro: virtual simulation test
Software name  Display type	ESetup Easergy Pro: virtual simulation test  Colour LCD 480 x 272 pixels

7 customizable

Number of key

Local signalling	4 x LED 10 x LED tri-colour programmable	
Height	176 mm	
Width	152 mm	
Depth	219 mm	
Net weight	3.5 kg	

# **Environment**

Environment	
climatic withstand	Exposure to cold conforming to IEC 60068-2-1 Exposure to dry heat conforming to IEC 60068-2-2 Exposure to damp heat in service conforming to IEC 60068-2-78 Exposure to damp heat in service conforming to IEC 60068-2-30 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 Influence of corrosion/gas test 2 conforming to IEC 60721-3-3 Influence of corrosion/gas test 4 conforming to IEC 60721-3-3
Mechanical robustness	Vibrations (level: class 2) conforming to IEC 60255-21-1 Vibrations conforming to GOST 17516.1 Vibrations conforming to IACS E10 Shocks (level: class 2) conforming to IEC 60255-21-2 Earthquakes (level: class 2) conforming to IEC 60255-21-3
Electromagnetic compatibility	Emission tests class A conforming to CISPR 11 Emission tests class A conforming to CISPR 32 Emission tests conforming to IACS E10 EMC immunity class 4 conforming to IEC 61000-4-2 EMC immunity class 4 conforming to ANSI C37.90.3 EMC immunity level 3 conforming to IEC 61000-4-3 EMC immunity conforming to ANSI C37.90.2 EMC immunity conforming to GOST 32137 EMC immunity conforming to GOST 30804.4.3 EMC immunity conforming to IACS E10 EMC immunity level 5 conforming to IEC 61000-4-8 EMC immunity level 5 conforming to IEC 61000-4-9 EMC immunity level 5 conforming to IEC 61000-4-10 EMC immunity level 3 conforming to IEC 61000-4-10 EMC immunity level 3 conforming to IEC 61000-4-10 EMC immunity level 3 conforming to IEC 61000-4-18 EMC immunity level 3 conforming to IEC 61000-4-12 EMC immunity conforming to IEC 61000-4-12 EMC immunity conforming to IEC 61000-4-12 EMC immunity level 4 conforming to IEC 61000-4-16 EMC immunity level 4 conforming to IEC 61000-4-16 EMC immunity level 4 conforming to IEC 61000-4-5
Ambient air temperature for operation	-4085 °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	093 % 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 extended warranty (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)	292
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