

# Relais de protection PowerLogic P5F30

REL50492

EAN Code: 3606486364482

### Main

Range of product	PowerLogic P5
Product or component type	Protection and control relay
Relay application	Feeder - directional over current
product reference	P5F30-DDCD-GABEH-AEAC
Mounting case size	30TE
Device mounting	Flush
Mounting support	Rack
Mounting mode	Withdrawable
power supply	100230 V AC 48250 V DC
measuring inputs	: 1/5 A CT phase current 3 : 1/5 A CT residual current 1 : 1 A CT current 1 : voltage 4
number of Digital Inputs (DI)	19
number of analogue inputs	0
number of Digital Outputs (DO)	1 watchdog 18 digital
number of analogue outputs	0
communication ports	USB port 2 front Extension port 1 rear with backup memory RJ45 4 rear
communication protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 DNP3 over ethernet Modbus TCP Modbus RTU IEC 60870-5-101 IEC 60870-5-103 EtherNet/IP DNP3 RTU
Redundancy communication port protocol	RSTP
Cybersecurity	Password protection Port hardening Firmware signature Client IP address filter Secured communication with assciated tools

protection functions	Phase overcurrent 50/51
	Directional phase overcurrent 67
	Earth fault overcurrent 50N/51N
	Directional earth fault 67N
	Transient earth fault 67NI
	Neutral admittance 21YN
	Broken conductor 46 I2/I1
	Cold load pick-up
	Switch ON to fault (SOTF)
	Breaker failure 50BF
	Directional active underpower 37P Phase undercurrent 37
	Excessive starting time, locked rotor 48/51LR
	Motor restart inhibition 66
	Negative sequence overcurrent 46
	Overvoltage 59
	Undervoltage 27
	Positive sequence undervoltage 27P
	Earth fault overvoltage 59N
	Underfrequency 81/81N
	Overfrequency 81/81N
	Restricted earth fault 64REF
	Lockout relay 86
	CT supervision 60
	VT supervision 60
	H2 detection 68H2
	H5 detection 68H5
	Earth fault wattmetric 32N
	Programmable stages 99
	Programmable curve
	Programmable logic
	Current unbalance 46 I2/I1
Arc flash protection	No
	NO
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
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monitoring functions	Trip circuit supervision 74
	Circuit breaker monitoring
	Relay self-monitoring
logs and records	Event recording
	Disturbance recording
	Tripping context
	Relay maintenance
Connections - terminals	Pin removable (digital input/output)
Connections - terminals	Pin removable (digital input/output) Ring lugs removable (current transformer)
	Pin removable (voltage transformer)
	Ring lugs (voltage transformer)
	Screw (connector)
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Complementary	

Time synchronisation protocol SNTP

Software name	EcoStruxure Power Device: virtual simulation test	
	ESetup Easergy Pro	
Web server	Embedded HTTP server	
Display type	Colour LCD 480 x 272 pixels	
Number of key	7 customizable	
Local signalling	10 x LED tri-colour programmable	
	4 x LED red programmable	
Height	176 mm	
Width	152 mm	
Depth	219 mm	
Net weight	3.5 kg maximum	
Environment		
climatic withstand	Exposure to dry heat conforming to IEC 60068-2-2	
	Exposure to cold conforming to IEC 60068-2-1	
	Exposure to damp heat in service conforming to IEC 60068-2-30 Exposure to damp heat in service conforming to 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	
	Stationary use at weatherprotected locations conforming to IEC 60721-3-3	
Mechanical robustness	Vibrations conforming to GOST 17516.1	
	Vibrations conforming to IACS E10	

climatic withstand	Exposure to dry heat conforming to IEC 60068-2-2 Exposure to cold conforming to IEC 60068-2-1 Exposure to damp heat in service conforming to IEC 60068-2-30 Exposure to damp heat in service conforming to 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 Stationary use at weatherprotected locations conforming to IEC 60721-3-3
Mechanical robustness	Vibrations conforming to GOST 17516.1 Vibrations conforming to IACS E10 Shocks (level: class II) conforming to IEC 60255-21-2 Seismic tests (level: class II) conforming to IEC 60255-21-3 Bumps (level: class II) conforming to IEC 60255-21-2 Vibrations (level: class II) conforming to IEC 60255-21-1
Electromagnetic compatibility	Emission tests conforming to IACS E10 Emission tests class A conforming to CISPR 11 Emission tests class A conforming to CISPR 32 EMC immunity level 4 conforming to IEC 61000-4-2 EMC immunity level 3 conforming to IEC 61000-4-3 EMC immunity level 4 conforming to IEC 61000-4-4 EMC immunity level 4 conforming to IEC 61000-4-5 EMC immunity level 3 conforming to IEC 61000-4-6 EMC immunity level 5 conforming to IEC 61000-4-8 EMC immunity level 5 conforming to IEC 61000-4-8 EMC immunity conforming to IACS E10 EMC immunity level 5 conforming to IEC 61000-4-10 EMC immunity conforming to IEC 61000-4-12 EMC immunity level 3 conforming to IEC 61000-4-16 EMC immunity level 3 conforming to IEC 61000-4-18 EMC immunity conforming to ANSI C37.90.1 EMC immunity conforming to ANSI C37.90.2 EMC immunity class 4 conforming to ANSI C37.90.3 EMC immunity conforming to GOST 30804.4.12 EMC immunity conforming to GOST 30804.4.3
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	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 cm
Package 1 Width	30 cm
Package 1 Length	40 cm
Package 1 Weight	4.441 ka

# **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)	445
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