Specifications



## PowerLogic<sup>™</sup> P5M30 48-250V 3CT 1CSH 4VT 16DI-12DO RSTP Eth RJ45

REL50458

EAN Code: 3606489488079

#### Main

Man		
Range of product	PowerLogic P5	
Product or component type	Protection and control relay	
Relay application	Motor	
product reference	P5M30-BACB-HABAH-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 : CSH 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	RJ45 2 rear Extension port 1 rear with backup memory USB port 2 front	
communication protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 DNP3 over ethernet Modbus TCP EtherNet/IP	
Redundancy communication port protocol	RSTP	
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
	Neutral admittance 21YN
	Earth fault wattmetric 32N
	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
	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
	Lockout relay 86
	CT supervision 60 VT supervision 60
	Programmable stages 99
	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
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	Fuent recording
logs and records	Event recording
	Disturbance recording Tripping context
	Relay maintenance
Switchgear diagnosis type	CT/VT supervision ANSI code: 60
	Trip circuit supervision ANSI code: 74
Connections - terminals	Screw (digital input/output)
	Ring lugs (analog inputs and outputs)

# Complementary

Time synchronisation protocol	SNTP
Software name	EcoStruxure Power Device ESetup Easergy Pro: virtual simulation test
Web server	Embedded HTTP server
Display type	Colour LCD 480 x 272 pixels

Number of key	7 customizable
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

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 302137 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 61000-4-6
	EMC immunity level 3 conforming to IEC 61000-4-18
	EMC immunity conforming to ANSI C37.90.1
	EMC immunity conforming to IEC 61000-4-12
	EMC immunity conforming to GOST 30804.4.12
	EMC immunity level 4 conforming to IEC 61000-4-16
	EMC immunity level 4 conforming to IEC 61000-4-4
	EMC immunity level 4 conforming to IEC 61000-4-5
Ambient air temperature for	-4085 °C ( 16 h )
	-4085 °C(16 h) -4070 °C(96 h)
operation	
Ambient air temperature for operation IP degree of protection maximum operating altitude	-4070 °C (96 h)
operation IP degree of protection	-4070 °C ( 96 h ) IP54 conforming to IEC 60529
operation IP degree of protection maximum operating altitude	-4070 °C ( 96 h ) IP54 conforming to IEC 60529 2000 m
operation IP degree of protection maximum operating altitude	-4070 °C ( 96 h ) IP54 conforming to IEC 60529 2000 m Conformal coating conforming to IEC 60068-2-52:Kb/1
operation IP degree of protection maximum operating altitude	-4070 °C (96 h)         IP54 conforming to IEC 60529         2000 m         Conformal coating conforming to IEC 60068-2-52:Kb/1         Conformal coating conforming to IEC 60068-2-60:Ke

# **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

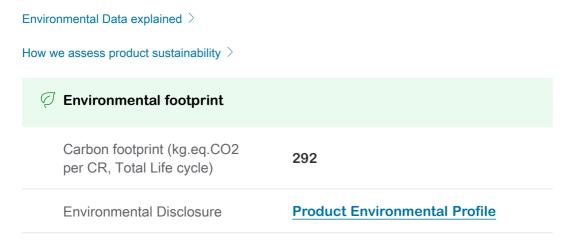
### **Contractual warranty**

Warranty

Up to 10 years extended warranty (Standard warranty 2 years. Please check with your local SE representative for extended warranty availability and conditions)

# 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.



### **Use Better**

S Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Νο
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	<b>REACh Declaration</b>
China RoHS Regulation	China RoHS declaration

#### Use Again

$\bigcirc$ Repack and remanufacture	
Circularity Profile	End of Life Information

Life Is On Schneider

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

 Take-back
 No