



PowerLogic P5U20 24-250V 3CT 2lo 10DI-8DO

REL50303

Main

Range Of Product	PowerLogic P5
Product Or Component Type	Protection and control relay
Relay Application	Universal
Product Reference	P5U20-AABB-BAAAA-AAEA
Mounting Case Size	20TE
Device Mounting	Flush
Mounting Mode	Withdrawable
Power Supply	24240 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
Number Of Sensors	0 temperature sensor(s) 0 arc sensor(s)
Number Of Digital Inputs (Di)	10
Number Of Digital Outputs (Do)	7 DO 1 watchdog
Number Of Analogue Inputs	0
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 62442-4-2 SL1

Earth fault overcurrent 50N/51N Capacitor bank unbalance 51C Broken conductor 46 (2/11 Current unbalance 46 (2/11 Cold load pick-up Switch ON to fault (SOTF) H2 detection H5 detection Breaker failure 50BF Recloser 79 Thermal overload protection 49 Phase undercurrent 37 Negative sequence overcurrent 46 Excessive starting time, locked rotor 48/51LR Motor restart inhibition 66 Capacitor overvoltage 59C Lockout relay 86 CT supervision 60 Programmable logic Programmable curve ent Functions Current 3-phase Current 2-phase Current action of negative sequence Current negative sequence Current ratio of negative and positive Frequency Phasor diagram of currents or voltages Current 2nd. 15th harmonics with THD actions Switchgear control and monitoring Programmable switchgear interlocking Local/remote control e Switchgear Devices 6 controlled + 2 monitored objects Setting Groups 4 Functions Event recording Disturbance recording Tripping cortext Relay maintenance CT supervision ANSI code: 74 Sirgulage (analog inputs and outputs)	Protection Functions	Phase overcurrent 50/51
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Diagnosis Type CT supervision ANSI code: 60 Trip circuit supervision ANSI code: 74 Screw (digital input/output) Ring lugs (analog inputs and outputs)		Tripping context
Trip circuit supervision ANSI code: 74 Screw (digital input/output) Ring lugs (analog inputs and outputs)		Relay maintenance
Trip circuit supervision ANSI code: 74 Screw (digital input/output) Ring lugs (analog inputs and outputs)	Switchgear Diagnosis Type	CT supervision ANSI code: 60
Ring lugs (analog inputs and outputs)		·
Ring lugs (analog inputs and outputs)	Connections - Terminals	Scrow (digital input/output)
	Connections - refillitials	
		King lugs (analog inputs and outputs)
	Complementary	

Complementary

Software Name	ESetup Easergy Pro: virtual simulation test
Display Type	LCD 192 x 96 pixels
Number Of Key	1 customizable
Local Signalling	4 x LED 6 x LED tri-colour programmable
Height	176 mm
Width	102 mm
Depth	219 mm
Net Weight	2.5 kg

Environment

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 61000-4-0
	EMC immunity conforming to IEC 01000-4-10
	EMC immunity conforming to FKO 607.50.1
	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
	ENIO IIIIIIIIIIII IVOI 4 COMOTTIIIII IO 120 01000 4 0
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
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
Ambient Air Temperature For	-4085 °C (16 h)
Operation	-4070 °C (96 h)
Ambient Air Temperature For	-4085 °C
Storage	1774
Ip Degree Of Protection	IP54 conforming to IEC 60529
Relative Humidity	093 % at 40 °C, without condensation, 56 days
-	9395 % at 2555 °C, 6 cycles, 12 + 12 hours
Maximum Operating Altitude	2000 m
Protective Treatment	Conformal coating conforming to IEC 60068-2-52:Kb/1
. Total and Trademont	Conformal coating conforming to IEC 60068-2-60:Ke
	Conformal coating conforming to IEC 60721-3-3:3C2
Packing Units	
Unit Type Of Package 1	PCE
	•
Number Of Units In Package 1	1
Package 1 Height	30.0 cm

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	40.0 cm
Package 1 Weight	3.0 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)

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information