



PowerLogic P5V20 4VT 24-250V 4DI-4DO RSTP Eth RJ45

REL50339

! Discontinued

Main

Range of product	PowerLogic P5
Product or component type	Protection and control relay
relay application	Voltage
product reference	P5V20-AABA-DABAH-BAEA
Mounting case size	20TE
Device mounting	Flush
mounting mode	Withdrawable
power supply	24240 V DC 100230 V AC
measuring inputs	: VT voltage 4
Number of sensors	0 temperature sensor(s) 0 arc sensor(s)
number of Digital Inputs (DI)	4
number of Digital Outputs (DO)	3 DO 1 watchdog
number of analogue inputs	0
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
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	Overvoltage Undervoltage Positive sequence undervoltage 27P Earth fault overvoltage 59N Underfrequency 81/81N Rate of change of frequency 81R Synchro-check Breaker failure 50BF Lockout relay VT supervision
	Programmable stages Programmable curve
measurement functions	Voltage 3-phase Voltage residual Voltage zero sequence Voltage positive sequence Voltage negative sequence Frequency Phasor diagram of currents or voltages
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	Event recording Disturbance recording Tripping context Relay maintenance
Switchgear diagnosis type	VT supervision ANSI code: 60 Trip circuit supervision ANSI code: 74
Connections - terminals	Screw (digital input/output) Ring lugs (analog inputs and outputs)

Complementary

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Time synchronisation protocol	SNTP
Software name	EcoStruxure Power Device ESetup Easergy Pro: virtual simulation test
Web server	Embedded HTTP server
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

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
	Earthquakes (16vel. class 2) comorning to 120 00200 21 0
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 61000-4-6
	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)
operation	-4070 °C (96 h)
Ambient air temperature for storage	-4085 °C
	IDEA conferming to IEO 00500
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
	Conformal coating conforming to IEC 60068-2-60:Ke
	Conformal coating conforming to IEC 60721-3-3:3C2
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Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.5 cm
Package 1 Width	27.0 cm
Package 1 Length	37.0 cm
Package 1 Weight	2.8 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

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

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