

# PowerLogic™ P5V20 24-250V 4VT 4DI-4DO

REL50305

EAN Code: 3606489487867

#### Main

Range of product	PowerLogic P5
Product or component type	Protection and control relay
Relay application	Voltage
product reference	P5V20-AABA-DAAAA-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 analogue inputs	0
number of Digital Outputs (DO)	3 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	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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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**

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 EC 61000-4-3 EMC immunity conforming to ANSI C37.90.2 EMC immunity conforming to GOST 32137 EMC immunity conforming to GOST 32137 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 61000-4-18 EMC immunity conforming to ANSI C37.90.1 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 61000-4-4 EMC immunity level 4 conforming to IEC 61000-4-4
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	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)

# **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.

Environmental Data explained >

How we assess product sustainability >

⊘ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	182
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