# Disclaimer. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



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

REL50339

### Main

| Mairi                          |   |
|--------------------------------|---|
| Range Of Product               | PowerLogic P5   |
| Product Or Component Type      | Protection and control relay  |
| Relay Application              | Voltage   |
| Product Reference              | P5V20-AABA-DABAH-AAEA   |
| Mounting Case Size             | 20TE  |
| Device Mounting                | Flush   |
| Mounting Mode                  | Withdrawable  |
| Power Supply                   | 24240 V DC<br>100230 V AC   |
| Measuring Inputs               | : VT voltage 4  |
| Number Of Sensors              | 0 temperature sensor(s)<br>0 arc sensor(s)  |
| Number Of Digital Inputs (Di)  | 4   |
| Number Of Digital Outputs (Do) | 3 DO<br>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 62442-4-2 SL1 |

| 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 stages Programmable curve  Measurement Functions  Voltage 3-phase Voltage residual Voltage residual Voltage pasitive sequence Voltage negative sequence Voltage pasitive 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 | Protection Functions            | Overveltage                            |
|---|---------------------------------|--|
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| 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 positive 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 Relay self-monitoring Usurbance 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)   |                                 | · · · · · · · · · · · · · · · · · · ·  |
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| Breaker failure 50BF Lockout relay VT supervision Programmable stages Programmable stages Programmable curve  Measurement Functions  Voltage 3-phase Voltage residual Voltage positive sequence Voltage positive sequence Voltage pegative 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 Relay self-monitoring Tripping context Relay maintenance  Switchgear Diagnosis Type  VT supervision ANSI code: 60 Trip circuit supervision ANSI code: 74  Connections - Terminals  Screw (digital input/output)   |                                 |  |
| Lockout relay VT supervision Programmable stages Programmable stages Programmable curve  Measurement Functions  Voltage 3-phase Voltage residual Voltage residual Voltage residual 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 Relay self-monitoring 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)   |                                 | ·                                      |
| VT supervision Programmable stages Programmable stages Programmable curve  Measurement Functions  Voltage 3-phase Voltage residual Voltage residual Voltage positive sequence Voltage positive 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 Relay self-monitoring Selay self-monitoring Tripping context Relay maintenance  Switchgear Diagnosis Type  VT supervision ANSI code: 60 Trip circuit supervision ANSI code: 74  Connections - Terminals  Screw (digital input/output)   |                                 |  |
| Programmable stages Programmable curve  Measurement Functions  Voltage 3-phase Voltage residual Voltage positive 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 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)   |                                 | •                                      |
| 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 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)   |                                 |  |
| Voltage 3-phase   |                                 |  |
| Voltage residual Voltage zero sequence Voltage positive 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)  |                                 | Programmable curve                     |
| Voltage positive 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)  | Measurement Functions           | Voltage 3-phase                        |
| 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 Relay self-monitoring  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)   |                                 | Voltage residual                       |
| 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 Relay self-monitoring Disturbance 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)  |                                 | Voltage zero 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)   |                                 | Voltage positive sequence              |
| 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 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)  |                                 | Voltage negative sequence              |
| 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)  |                                 | Frequency                              |
| 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 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)  |                                 | Phasor diagram of currents or voltages |
| Local/remote control  Controllable Switchgear Devices 6 controlled + 2 monitored objects  Number Of Setting Groups 4  Monitoring Functions Trip circuit supervision 74  | Control Functions               | Switchgear control and monitoring      |
| 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)   |                                 | Programmable switchgear interlocking   |
| 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)  |                                 | Local/remote control                   |
| 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)   | Controllable Switchgear Devices | 6 controlled + 2 monitored objects     |
| 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)   | Number Of Setting Groups        | 4                                      |
| 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)  | Monitoring Functions            | Trip circuit supervision 74            |
| 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)   |                                 | Circuit breaker monitoring             |
| 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)   |                                 | Relay self-monitoring                  |
| Tripping context Relay maintenance  Switchgear Diagnosis Type  VT supervision ANSI code: 60 Trip circuit supervision ANSI code: 74  Connections - Terminals  Screw (digital input/output)   | Logs And Records                | Event recording                        |
| Relay maintenance  Switchgear Diagnosis Type  VT supervision ANSI code: 60 Trip circuit supervision ANSI code: 74  Connections - Terminals  Screw (digital input/output)  |                                 | Disturbance recording                  |
| Switchgear Diagnosis Type  VT supervision ANSI code: 60  Trip circuit supervision ANSI code: 74  Connections - Terminals  Screw (digital input/output)  |                                 | Tripping context                       |
| Trip circuit supervision ANSI code: 74  Connections - Terminals Screw (digital input/output)  |                                 | Relay maintenance                      |
| Connections - Terminals Screw (digital input/output)  | Switchgear Diagnosis Type       | VT supervision ANSI code: 60           |
| Colon (alguar input output)   |                                 | Trip circuit supervision ANSI code: 74 |
| Ring lugs (analog inputs and outputs)   | Connections - Terminals         | Screw (digital input/output)           |
|   |                                 | Ring lugs (analog inputs and outputs)  |

## Complementary

| · · · · · · · · · · · · · · · · · · |   |
|-------------------------------------|---|
| Time Synchronisation Protocol       | SNTP  |
| Software Name                       | EcoStruxure Power Device<br>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<br>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 3 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 rever 3 conforming to 12C 0 1000-4-18   |
|                                     | EMC immunity conforming to ECC 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 61000-4-10  |
|                                     | EMC immunity level 4 conforming to IEC 61000-4-5   |
|                                     | Livio inititality level 4 comorning to ILO 01000-4-3   |
| 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  |
| 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)  |
| Austriant Air Tanananatura Fan      | 40.000   |
| Ambient Air Temperature For Storage | -4085 °C   |
| Ip Degree Of Protection             | IP54 conforming to IEC 60529   |
| Relative Humidity                   | 0. 02 % at 40 °C without condensation. E6 days   |
| Relative Fullidity                  | 093 % at 40 °C, without condensation, 56 days<br>9395 % at 2555 °C, 6 cycles, 12 + 12 hours        |
|                                     | 9595 % at 2595 °C, 6 cycles, 12 + 12 nours   |
| 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  |
|                                     |  |
| Packing Units                       |  |
| Unit Type Of Package 1              | PCE  |
| Number Of Units In Package 1        | 1  |
|                                     |  |
| Package 1 Height                    | 13.5 cm  |

| 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 Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

Yes

### **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  |
| <b>Environmental Disclosure</b> | 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   |
| California Proposition 65       | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |