Product datasheet

Specifications

PowerLogic P5T30 24-48V 6CT 2Io 1VT 22DI-14DO 6 Arc Sensors Advanced Logic and Cybersec Backup memory ANSI

REL50500

EAN Code: 3606486114209

Main

Range of product	PowerLogic P5
Product or component type	Protection and control relay
Relay application	Transformer differential
product reference	P5T30-CCDE-JAAAH-BAFK
Mounting case size	30TE
Device mounting	Flush
Mounting support	Rack
Mounting mode	Withdrawable
power supply	24...48 V DC
measuring inputs	: 1/5 A CT phase current 6 : 1/5 A CT residual current 2 : VT voltage 1
Number of sensors	0 temperature sensor(s)
number of Digital Inputs (DI)	22
number of analogue inputs	0
number of Digital Outputs (DO)	1 watchdog 13 digital
number of analogue outputs	0
communication ports	USB port 2 front
Cybersecurity	Port hardening Firmware signature Client IP address filter Secured communication with assciated tools Role-based access control Security policy management Security log LDAP RADIUS based user authentication IEC 62443-4-2 SL1

protection functions	Two-winding transformer differential 87T Overfluxing (V/Hz) 24 Phase overcurrent 50/51 Earth fault overcurrent 50N/51N Directional earth fault 67N Thermal overload for transformer 49F Thermostat / buchholz 26/63 Restricted earth fault 64REF Current unbalance 46BC Broken conductor 46BC H2 detection 68H2 Breaker failure 50BF Negative sequence overcurrent 46 Earth fault overvoltage 59N Lockout relay 86 CT supervision 60 Programmable stages 99 Programmable curve Programmable logic
Arc flash protection	Yes
measurement functions	Current 3-phase Current zero sequence Current positive sequence Current negative sequence Current ratio of negative and positive Current phasor diagram view Current 2nd, 15th harmonics with THD Voltage per phase Voltage residual Frequency
control functions	Switchgear control and monitoring Programmable switchgear interlocking Local/remote control 2 function keys
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
Connections - terminals	Pin removable (digital input/output) Ring lugs (current transformer) Ring lugs (voltage transformer) Screw (connector)

Complementary

Software name	EcoStruxure Power Device: virtual simulation test ESetup Easergy Pro
Display type	Colour LCD 480 x 272 pixels
Number of key	7 customizable
Local signalling	10 x LED tri-colour programmable 4 x LED red programmable
Height	176 mm
Width	152 mm
Depth	219 mm
Net weight	3.5 kg maximum

Environment

climatic withstand	Exposure to dry heat conforming to IEC 60068-2-2 Exposure to cold conforming to IEC 60068-2-1 Exposure to damp heat in service conforming to IEC 60068-2-30 Exposure to damp heat in service conforming to IEC 60068-2-78 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 Stationary use at weatherprotected locations conforming to IEC 60721-3-3
Mechanical robustness	Vibrations conforming to GOST 17516.1 Vibrations conforming to IACS E10 Shocks (level: class II) conforming to IEC 60255-21-2 Seismic tests (level: class II) conforming to IEC 60255-21-3 Bumps (level: class II) conforming to IEC 60255-21-2 Vibrations (level: class II) conforming to IEC 60255-21-1
Electromagnetic compatibility	Emission tests conforming to IACS E10 Emission tests class A conforming to CISPR 11 Emission tests class A conforming to CISPR 32 EMC immunity level 4 conforming to IEC 61000-4-2 EMC immunity level 3 conforming to IEC 61000-4-3 EMC immunity level 4 conforming to IEC 61000-4-4 EMC immunity level 4 conforming to IEC 61000-4-5 EMC immunity level 3 conforming to IEC 61000-4-6 EMC immunity level 5 conforming to IEC 61000-4-8 EMC immunity conforming to IACS E10 EMC immunity level 5 conforming to IEC 61000-4-10 EMC immunity conforming to IEC 61000-4-12 EMC immunity level 4 conforming to IEC 61000-4-16 EMC immunity level 3 conforming to IEC 61000-4-18 EMC immunity conforming to ANSI C37.90.1 EMC immunity conforming to ANSI C37.90.2 EMC immunity class 4 conforming to ANSI C37.90.3 EMC immunity conforming to GOST 30804.4.12 EMC immunity conforming to GOST 32137 EMC immunity conforming to GOST 30804.4.3
Ambient air temperature for operation	-40…85 °C (16 h) -40…70 °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	0…95 % at 40 °C, without condensation, 56 days 93…95 % at 25…55 °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 cm
Package 1 Width	30 cm
Package 1 Length	40 cm
Package 1 Weight	4.441 kg

Contractual warranty

Warranty	Up to 10 years (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)	**380**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

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**