

# Product datasheet

Specifications



## PowerLogic P5T30 48-250V 6CT 2Io 1VT 15DI-13DO

REL50496

EAN Code: 3606482467439

### Main

Range of product	PowerLogic P5
Product or component type	Protection and control relay
Relay application	Transformer differential
product reference	P5T30-BACD-JAAAA-BAEA
Mounting case size	30TE
Device mounting	Flush
Mounting support	Rack
Mounting mode	Withdrawable
power supply	100...230 V AC 48...250 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)	15
number of analogue inputs	0
number of Digital Outputs (DO)	1 watchdog 12 digital
number of analogue outputs	0
communication ports	USB port 2 front
Cybersecurity	Port hardening Firmware signature Client IP address filter Secured communication with associated tools Role-based access control Security policy management Security log LDAP RADIUS based user authentication IEC 62443-4-2 SL1

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

<b>protection functions</b>	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
<b>Arc flash protection</b>	No
<b>measurement functions</b>	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
<b>control functions</b>	Switchgear control and monitoring Programmable switchgear interlocking Local/remote control 2 function keys
<b>controllable switchgear devices</b>	6 controlled + 2 monitored objects
<b>number of setting groups</b>	4
<b>monitoring functions</b>	Trip circuit supervision 74 Circuit breaker monitoring Relay self-monitoring
<b>logs and records</b>	Event recording Disturbance recording Tripping context Relay maintenance
<b>Connections - terminals</b>	Pin removable (digital input/output) Ring lugs (current transformer) Ring lugs (voltage transformer) Screw (connector)

## Complementary

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

## Environment

<b>climatic withstand</b>	<p>Exposure to dry heat conforming to IEC 60068-2-2</p> <p>Exposure to cold conforming to IEC 60068-2-1</p> <p>Exposure to damp heat in service conforming to IEC 60068-2-30</p> <p>Exposure to damp heat in service conforming to IEC 60068-2-78</p> <p>Temperature variation conforming to IEC 60068-2-14</p> <p>Salt mist conforming to IEC 60068-2-52</p> <p>Influence of corrosion/gas test 2 conforming to IEC 60068-2-60</p> <p>Stationary use at weatherprotected locations conforming to IEC 60721-3-3</p>
<b>Mechanical robustness</b>	<p>Vibrations conforming to GOST 17516.1</p> <p>Vibrations conforming to IACS E10</p> <p>Shocks (level: class II) conforming to IEC 60255-21-2</p> <p>Seismic tests (level: class II) conforming to IEC 60255-21-3</p> <p>Bumps (level: class II) conforming to IEC 60255-21-2</p> <p>Vibrations (level: class II) conforming to IEC 60255-21-1</p>
<b>Electromagnetic compatibility</b>	<p>Emission tests conforming to IACS E10</p> <p>Emission tests class A conforming to CISPR 11</p> <p>Emission tests class A conforming to CISPR 32</p> <p>EMC immunity level 4 conforming to IEC 61000-4-2</p> <p>EMC immunity level 3 conforming to IEC 61000-4-3</p> <p>EMC immunity level 4 conforming to IEC 61000-4-4</p> <p>EMC immunity level 4 conforming to IEC 61000-4-5</p> <p>EMC immunity level 3 conforming to IEC 61000-4-6</p> <p>EMC immunity level 5 conforming to IEC 61000-4-8</p> <p>EMC immunity conforming to IACS E10</p> <p>EMC immunity level 5 conforming to IEC 61000-4-10</p> <p>EMC immunity conforming to IEC 61000-4-12</p> <p>EMC immunity level 4 conforming to IEC 61000-4-16</p> <p>EMC immunity level 3 conforming to IEC 61000-4-18</p> <p>EMC immunity conforming to ANSI C37.90.1</p> <p>EMC immunity conforming to ANSI C37.90.2</p> <p>EMC immunity class 4 conforming to ANSI C37.90.3</p> <p>EMC immunity conforming to GOST 30804.4.12</p> <p>EMC immunity conforming to GOST 32137</p> <p>EMC immunity conforming to GOST 30804.4.3</p>
<b>Ambient air temperature for operation</b>	<p>-40...85 °C ( 16 h )</p> <p>-40...70 °C ( 96 h )</p>
<b>IP degree of protection</b>	IP54 conforming to IEC 60529
<b>maximum operating altitude</b>	2000 m
<b>Protective treatment</b>	<p>Conformal coating conforming to IEC 60068-2-52:Kb/1</p> <p>Conformal coating conforming to IEC 60068-2-60:Ke</p> <p>Conformal coating conforming to IEC 60721-3-3:3C2</p>
<b>Relative humidity</b>	<p>0...95 % at 40 °C, without condensation, 56 days</p> <p>93...95 % at 25...55 °C, 6 cycles, 12 + 12 hours</p>

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	30 cm
<b>Package 1 Width</b>	30 cm
<b>Package 1 Length</b>	40 cm
<b>Package 1 Weight</b>	4.441 kg

## Contractual warranty

<b>Warranty</b>	Up to 10 years (Standard warranty 2 years. Please check with your local SE representative for extended warranty availability and conditions))
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## 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)	<b>334</b>
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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	<b>Yes</b>
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Packaging without single use plastic	<b>No</b>
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EU RoHS Directive	<b>Pro-active compliance (Product out of EU RoHS legal scope)</b>
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REACH Regulation	<a href="#">REACH Declaration</a>
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China RoHS Regulation	<a href="#">China RoHS declaration</a>
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## Use Again

### Repack and remanufacture

Circularity Profile	<a href="#">End of Life Information</a>
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WEEE



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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Take-back

No

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