

# Product datasheet

Specifications



## PowerLogic P3L30 line protection

P3L30

### Main

Range of product	PowerLogic P3
relay application	Line differential
product reference	P3L30
Device mounting	Flush
mounting support	Rack
mounting mode	Flush mounting
power supply	110...230 V AC/DC 50/60 Hz tolerance: + 10 % - 15 % 24...48 V AC/DC 50/60 Hz tolerance: + 10 % - 15 %
measuring inputs	: 1/5 A CT 36 : 1/0.2 A CT
number of Digital Outputs (DO)	22 digital
communication protocols	TCP/IP all counters conforming to 60255-5 DNP3 - DNP3 TCP DeviceNet Ethernet IP/Modbus TCP Modbus RTU Profibus DP SPABus
Redundancy communication port protocol	PRP RSTP
Cybersecurity	Enable/disable communication ports Firmware signature Password protection Port hardening Role-based access control

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

protection functions	Phase overcurrent 50/51 Phase overcurrent 50/51 22 Directional phase overcurrent 67 Earth fault overcurrent 50N/51N Directional earth fault 67N Transient earth fault 67NI Capacitor bank unbalance 51C Current protection 46 I2/I1 Cold load pick-up CPLU 50/51 Harmonic distortion 50/51 Circuit breaker protection 50 BF Switch ON to fault (SOTF) 50/51 Underload 32P Fault locator 21FL Recloser 79 Undercurrent 37 Thermal overload for feeder 49T Capacitor overvoltage 59C Negative sequence overcurrent 46 Overvoltage (L-L or L-N) 59 Undervoltage (L-L or L-N) 27 Positive sequence undervoltage 27P Earth fault overcurrent 51N/51G Underfrequency 81 Overfrequency 81O Rate of change of frequency 81R Synchro-check 25 Lockout 86 CT supervision 60 VT supervision 60 Programmable stages 99 Programmable curve 99 Logic selectivity Differential protection 87B
Relay type	Multifunction control relay
controllable switchgear devices	6 controlled + 8 displayed
number of setting groups	User
monitoring functions	Trip circuit supervision 74 Circuit breaker monitoring Relay self-monitoring
Switchgear diagnosis type	Cumulative breaking current (2 configurable buttons) Trip circuit supervision Nb of operations, operating time, charging time, nb of racking out operations VT supervision CT supervision
Connections - terminals	Clamps terminal flush mounting Ring lugs

## Complementary

input power interruption	50 ms
Maximum power consumption in W	20 W typical 28 W maximum
Time synchronisation protocol	SNTP IRIG-B
Software name	Easergy SmartApp ESetup Easergy Pro
Number of key	2 contextual key 1 home 1 for LED test 1 local/remote 5 for navigation 2 for switchgear control
Local signalling	2 x LED red status and alert 16 x LED green/red/orange programmable

Communication compatibility	IEC 61850 Modbus RTU DNP3 IEC 60870-5-103 IEC 61850 goose message Modbus TCPIP Modbus
Device connection	Extension port straight Serial port straight Serial port fiber optic Ethernet port straight Ethernet port fiber optic
Standards	EN 60255-26 EN 60255-27
Height	Total: 177 mm
Width	Total: 264 mm
Depth	Total : 208 mm
Net weight	4.2 kg minimum

## Environment

IP degree of protection	IP54 conforming to IEC 60529
Relative humidity	0...95 % at -40...60 °C

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class 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

<div>✓</div>	Mercury Free	
<hr/>		
<div>✓</div>	Rohs Exemption Information	Yes
<hr/>		

Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
<hr/>	
China Rohs Regulation	<a href="#">China RoHS declaration</a>
<hr/>	
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
<hr/>	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<hr/>	
Circularity Profile	<a href="#">End of Life Information</a>
<hr/>	