

# Product data sheet

Specifications



## PowerLogic P3M30 3CT 2Io ringlug 4VT 6DI 14DO 2Arc 110-230V DI110V RS485 RJ45 RS232 ANSI

REL53151

**Product availability: Non-Stock - Not normally stocked in distribution facility**

**Price\*: 4,710.48 USD**

### Main

Range of Product	PowerLogic P3
Product or Component Type	Protection relay
Relay application	Motor
product reference	P3M30-CBGAD-KA1FA-BBAAB
Mounting case size	30TE
Device mounting	Flush
Mounting Mode	Flush mounting
power supply	48...230 V AC/DC
measuring inputs	3 1/5 A CT phase current 1 5/1 A CT residual current 1 1/0.2 A CT residual current 4 100 V/110 V VT voltage
number of Digital Inputs (DI)	6
number of analogue inputs	0
number of Digital Outputs (DO)	11 DO 1 watchdog
number of analogue outputs	0
communication ports	Front USB port 1 Rear RS485 1 Rear RJ45 1
communication protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 DNP3 TCP Modbus TCP EtherNet/IP IEC 60870-5-103 DNP3 Modbus RTU DeviceNet SPAbus
Cybersecurity	Password protection Port hardening

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>protection functions</b>	<p>Synchro-check 25  Undervoltage 27  Directional active underpower 32  Phase undercurrent 37  Negative sequence overcurrent 46  Phase sequence 46  Excessive starting time, locked rotor 48/51LR  Thermal overload protection 49  Earth fault overcurrent 50N/51N  Phase overcurrent 50/51  Breaker failure 50BF  Switch ON to fault (SOTF)  Capacitor bank unbalance 51C  Switch ON to fault (SOTF) 25  Capacitor overvoltage 59C  Overvoltage 59  Earth fault overvoltage 59N  Stator earth fault 64S  Motor restart inhibition 66  Programmable stages 99 8  Programmable curve  Programmable curve 64S  Cold load pick-up 66  CT supervision 60 8</p>
<b>Arc flash protection</b>	Yes
<b>Relay Type</b>	Differential current relay
<b>measurement functions</b>	<p>Current 3-phase  Current zero sequence  Current positive sequence  Current negative sequence  Current ratio of negative and positive  Voltage phase to earth  Voltage phase to phase  Voltage zero sequence  Voltage positive sequence  Voltage negative sequence  Voltage ratio of negative and positive  Short circuit fault reactance  Fault location current  Earth fault reactance  Frequency  Active power  Fault location current zero sequence  RMS active power  Reactive power  RMS reactive power  Apparent power  Active energy  Earth fault reactance positive sequence  Reactive energy  Cos <math>\varphi</math>  Tan <math>\varphi</math>  Frequency zero sequence  Power factor  Voltage phasor diagram view  Current phasor diagram view  Active power positive sequence  Current 2nd, 15th harmonics with THD  Voltage 2nd, 15th harmonics with THD  Condition monitoring CB wear  Voltage interruption  RMS active power negative sequence  Reactive power ratio of negative and positive  Condition monitoring CB wear 2nd, 15th harmonics with THD</p>
<b>control functions</b>	<p>Switchgear control and monitoring  Programmable switchgear interlocking  Local control on single-line diagram  Local control with I/O keys  Local/remote control  2 function keys  Mobile application with Easergy SmartApp  Web-server  Programmable logic</p>
<b>controllable switchgear devices</b>	3 controlled + 3 displayed

<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
<b>Switchgear diagnosis type</b>	CT supervision TCS Trip circuit supervision TCS
<b>Connections - terminals</b>	Screw removable (digital input/output) Pin removable (voltage transformer) Ring lugs fixed (current transformer)

## Complementary

<b>Operating threshold</b>	110...230 V AC/DC
<b>Time synchronisation protocol</b>	SNTP
<b>Software name</b>	ESetup Easergy Pro virtual simulation test Easergy SmartApp
<b>Web server</b>	Embedded HTTP server
<b>Display type</b>	LCD 128 x 128 pixels with single line diagram LCD 128 x 128 pixels with ANSI symbols
<b>Number of key</b>	2 customizable
<b>Local signalling</b>	2 LEDs 16 LEDs programmable
<b>Height</b>	6.9 in (176 mm)
<b>Width</b>	10.6 in (270 mm)
<b>Depth</b>	9.06 in (230 mm)
<b>Net weight</b>	9.3 lb(US) (4.2 kg) maximum

## Environment

<b>climatic withstand</b>	Exposure to dry heat Bb EN/IEC 60068-2-2 Exposure to cold Ad EN/IEC 60068-2-1 Exposure to damp heat in service Db EN/IEC 60068-2-30 Exposure to damp heat in service Cab EN/IEC 60068-2-78
<b>Mechanical robustness</b>	Vibrations class II) IEC 60255-21-1 VibrationsFc IEC 60068-2-6 Shocks class II) IEC 60255-21-2 ShocksEa IEC 60068-2-27 Seismic tests method A class II) IEC 60255-21-3

<b>Electromagnetic compatibility</b>	Emission tests IEC/EN 60255-26 ed. 3 Emission tests class A CISPR 11 Emission tests class A CISPR 22 EMC immunity IEC/EN 60255-26 ed. 3 EMC immunity EN/IEC 61000-4-18 EMC immunity level 4 EN/IEC 61000-4-2 EMC immunity level 3 EN/IEC 61000-4-3 EMC immunity level 4 EN/IEC 61000-4-4 EMC immunity level 3 EN/IEC 61000-4-5 EMC immunity level 3 EN/IEC 61000-4-6 EMC immunity EN/IEC 61000-4-8 EMC immunity level 5 EN/IEC 61000-4-9 EMC immunity EN/IEC 61000-4-29 EMC immunity EN/IEC 61000-4-11 EMC immunity EN/IEC 61000-4-17 EMC immunity IEC 60255-22-1 EMC immunity IEC 60255-22-2 EMC immunity IEC 60255-22-3 EMC immunity IEC 60255-22-4 EMC immunity IEC 60255-22-5 EMC immunity IEC 60255-22-6 EMC immunity IEC 60255-27 EMC immunity class III IEC 60255-5 EMC immunity EN/IEC 60255-1
<b>Ambient air temperature for operation</b>	-40...149 °F (-40...65 °C)
<b>IP degree of protection</b>	IP54 front IEC 60529
<b>maximum operating altitude</b>	6561.68 ft (2000 m)
<b>Protective treatment</b>	Conformal coating
<b>Relative humidity</b>	0...95 %, without condensation

## Ordering and shipping details

<b>Category</b>	US1PL1S11405
<b>Discount Schedule</b>	PL1S
<b>GTIN</b>	3606487107002
<b>Returnability</b>	No
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	15.75 in (40 cm)
<b>Package 1 Width</b>	11.81 in (30 cm)
<b>Package 1 Length</b>	11.81 in (30 cm)
<b>Package 1 Weight</b>	11.7 lb(US) (5.3 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

[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 **Compliant with Exemptions**

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

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