

# Product data sheet

Specifications



feeder protection relay, PowerLogic  
P3F30 3CT 2Io RINGLUG 4VT 24DI  
22DO 110-230V DI110V RS232  
2RJ45 ANSI

REL53015

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

Price\*: 2,902.19 USD

## Main

Range of Product	PowerLogic P3
Product or Component Type	Protection relay
Relay application	Feeder
product reference	P3F30-CGGGG-KA1NA-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)	24
number of analogue inputs	0
number of Digital Outputs (DO)	21 DO 1 watchdog
number of analogue outputs	0
communication ports	Front USB port 1 Rear RS232 1 Rear RJ45 2
communication protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 IEC 60870-5-103 DNP3 DNP3 TCP Modbus RTU Modbus TCP EtherNet/IP Modbus TCP master SPAbus
Redundancy communication port protocol	RSTP PRP
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.

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**protection functions**

Fault locator 21FL  
Synchro-check 25  
Undervoltage 27  
Directional active underpower 32  
Broken conductor 46BC  
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  
Voltage-restrained overcurrent 51V  
Switch ON to fault (SOTF) 25  
Capacitor overvoltage 59C  
Overvoltage 59  
Earth fault overvoltage 59N  
Directional phase overcurrent 67  
Directional earth fault 67N  
Transient earth fault 67NI  
Magnetising inrush detection 68F2  
H5 detection 68H5  
Recloser 79  
Underfrequency 81/81N  
Rate of change of frequency 81R  
Lockout relay 86  
Programmable stages 99 8  
Programmable curve  
Cold load pick-up  
CT supervision 60  
Programmable curve 68H5  
Cold load pick-up 81/81N  
CT supervision 60 8

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**Arc flash protection**

No

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**measurement functions**

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  
RMS active power  
Reactive power  
RMS reactive power  
Apparent power  
RMS apparent power  
Apparent power phasor diagram view  
Active energy  
Reactive energy  
Cos  $\varphi$   
Tan  $\varphi$   
Power angle  
RMS apparent power phasor diagram view  
Power factor  
Voltage phasor diagram view  
Current phasor diagram view  
Current 2nd, 15th harmonics with THD  
Voltage 2nd, 15th harmonics with THD  
Condition monitoring CB wear  
Voltage interruption  
Active energy 2nd, 15th harmonics with THD  
Reactive energy 2nd, 15th harmonics with THD  
Tan  $\varphi$  positive sequence  
Power angle ratio of negative and positive  
Power factor positive sequence

<b>control functions</b>	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
<b>controllable switchgear devices</b>	8 controlled + 8 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>	3606486797174
<b>Returnability</b>	No
<b>Country of origin</b>	LV

## 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 **No**

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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