

# Product datasheet

Specifications



protection relay PowerLogic P1F  
24-250V 3CT 1Io: 0.01-2IN  
0DI-4DO RS485

REL15002

## Main

Range Of Product	PowerLogic
Product Or Component Type	Protection relay
Relay Application	Feeder
Product Reference	P1
Device Mounting	Flush
Mounting Support	Fixing kit
Mounting Mode	Flush-mounted
Power Supply	24...240 V AC 24...250 V DC
Measuring Inputs	: 1/5 A CT phase current 0
Number Of Digital Inputs (Di)	0
Number Of Digital Outputs (Do)	4 DO 1 watchdog
Type Of Temperature Module Connection	1 twisted shielded pair
Communication Protocols	CEI 60870-5-103 Modbus RTU
Cybersecurity	Password protection
Protection Functions	Breaker failure 50BF Phase overcurrent 50/51 Earth fault overcurrent 50N/51N Lockout relay 86 Cold load pick-up
Arc Flash Protection	No
Measurement Functions	Current 3-phase Current RMS Current peak Frequency
Control Functions	I/O push-button
Monitoring Functions	Trip circuit supervision 74 Relay self-monitoring
Logs And Records	Trip context information
Switchgear Diagnosis Type	Trip circuit supervision ANSI code: TCS
Connections - Terminals	Snap-on fixed

## Complementary

Maximum Power Consumption In W	13.5 W AC 4 W DC
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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>Display Type</b>	Graphic display terminal
<b>Number Of Key</b>	9
<b>Local Signalling</b>	6 x LED red/orange programmable 1 x LED red relay trip indicator 1 x LED green watchdog
<b>Device Connection</b>	Serial port 1 shielded twisted pair
<b>Communication Compatibility</b>	IEC 60870-5-103 Modbus RTU
<b>Standards</b>	EN 60255-26:2009 EN 60255-1:2010 EN 60255-27:2005
<b>Product Certifications</b>	CE
<b>Height</b>	101.5 mm embedded: 116.5 mm total:
<b>Width</b>	101.5 mm embedded: 116.5 mm total:
<b>Depth</b>	108 mm embedded: 119 mm total:
<b>Net Weight</b>	0.8 kg maximum

## Environment

<b>Directives</b>	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility
<b>Electromagnetic Compatibility</b>	Electromagnetic immunity level 3 conforming to EN 61000-4-2/3/4/5/6/8
<b>Mechanical Robustness</b>	Seismic tests: 2 Gn horizontal, 1 Gn vertical conforming to EN 60255-21-3 Shocks (level: class 1) : 5 Gn for 11 ms conforming to EN 60255-21-2 Shocks withstand (level: class 1) : 10 Gn for 16 ms conforming to EN 60255-21-2 Bumps (level: class 1) : 15 Gn for 11 ms conforming to EN 60255-21-2 Vibrations (level: class 1) : 1 Gn, 10...150 Hz, 1 cycle conforming to EN 60255-21-1
<b>Ambient Air Temperature For Operation</b>	-25...60 °C -30...70 °C ( 16 h )
<b>Relative Humidity</b>	0...93 % at 40 °C, 21 days 0...93 % at 60 °C, 10 days 93 % at 25...55 °C, 6 cycles, 12 + 12 hours

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	19.5 cm
<b>Package 1 Width</b>	16.5 cm
<b>Package 1 Length</b>	16.5 cm
<b>Package 1 Weight</b>	917.0 g
<b>Unit Type Of Package 2</b>	S03
<b>Number Of Units In Package 2</b>	6
<b>Package 2 Height</b>	30.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	5.943 kg

## Sustainability

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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)