Product datasheet

Specifications

protection relay PowerLogic P1F 24-250V 3CT 1Io: 0.05-12IN 0DI-4DO

REL15001

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
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
Display Type	Graphic display terminal
Number Of Key	9

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

Local Signalling	6 x LED red/orange programmable 1 x LED red relay trip indicator 1 x LED green watchdog
Standards	EN 60255-26:2009 EN 60255-1:2010 EN 60255-27:2005
Product Certifications	CE
Height	Embedded: 101.5 mm Total: 116.5 mm
Width	Embedded: 101.5 mm Total: 116.5 mm
Depth	Embedded : 108 mm Total : 119 mm
Net Weight	0.8 kg maximum

Environment

Directives	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility
Electromagnetic Compatibility	Electromagnetic immunity level 3 conforming to EN 61000-4-2/3/4/5/6/8
Mechanical Robustness	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
Ambient Air Temperature For Operation	-25…60 °C -30…70 °C (16 h)
Ambient Air Temperature For Storage	-30…70 °C
Ip Degree Of Protection	IP54 conforming to IEC 60529
Relative Humidity	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

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

Sustainability

Green Premium^{TM} 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_2 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

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