# **Product datasheet**

Specifications



## protection relay Easergy P1F 24-60V 3CT 1Io: 0.01-2IN 1VT 8DI-6DO RS485 USB

REL15020

#### Main

Mann		
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	2460 V AC 2460 V DC	
measuring inputs	: 1/5 A CT phase current 8	
number of Digital Inputs (DI)	8	
number of Digital Outputs (DO)	6 DO 1 watchdog	
type of temperature module connection	1 twisted shielded pair	
communication ports	1 RS485 on rear 1 USB type mini B on front	
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 Thermal overload protection 49 Cold load pick-up Switch ON to fault (SOTF) Inrush detection Negative sequence overcurrent 46 Broken conductor 46BC Recloser 79 Directional earth fault 67N	
Arc flash protection	No	
measurement functions	Current 3-phase Current RMS Current peak Current inrush Current positive sequence Current negative sequence Frequency Temperature overload	

control functions	Local/remote control I/O push-button Digital Using serial port	
monitoring functions	Circuit breaker monitoring Trip circuit supervision 74 Event counters Relay self-monitoring	
logs and records	Event recording Disturbance recording Trip context information	
Switchgear diagnosis type	Trip circuit supervision ANSI code: TCS	
Connections - terminals	Snap-on fixed Screw clamp terminals fixed	

# Complementary

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Maximum power consumption in W	13.5 W AC 4 W DC	
Software name	ESetup Easergy Pro: device setup	
Display type	Graphic display terminal	
Number of key	9	
Local signalling	6 x LED red/orange programmable 1 x LED red relay trip indicator 1 x LED green watchdog	
Device connection	Serial port 1 shielded twisted pair	
Communication compatibility	IEC 60870-5-103 Modbus RTU	
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

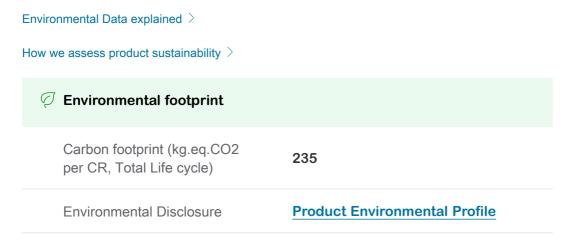
Directives	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility	
Electromagnetic compatibility	Electromagnetic immunity level 3 conforming to EN 61000-4-2/3/4/5/6/8	
Mechanical robustness	Seismic tests: 2 Gn horizontal, 1 Gn vertical conforming to EN 60255-21-3 Shocks (level: 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, 10150 Hz, 1 cycle conforming to EN 60255-21-1	
Ambient air temperature for operation	-2560 °C -3070 °C(16 h)	
IP degree of protection	IP54 conforming to IEC 60529	
Relative humidity	093 % at 40 °C, 21 days 093 % at 60 °C, 10 days 93 % at 2555 °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	997.0 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	6.423 kg

# 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.



### **Use Better**

S Materials and Packaging	
Packaging made with recycled cardboard	Νο
Packaging without single use plastic	Νο
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	<b>REACh Declaration</b>
China RoHS Regulation	China RoHS declaration

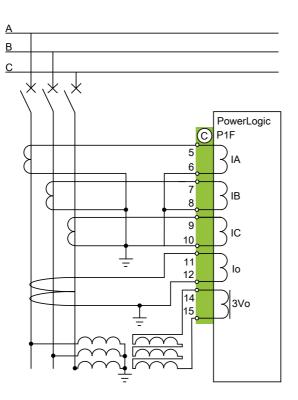
## **Use Again**

$\bigcirc$ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

## Product datasheet

#### **Technical Illustration**

#### Wiring diagram

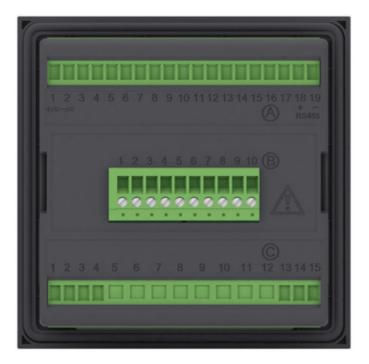


## Product datasheet

Image of product / Alternate images

Alternative







Life Is On Schneider

#### **Technical Illustration**

#### Assembly's dimensions

