

# Product datasheet

Specifications



protection relay PowerLogic P1F1S  
- CT powered, single phase for  
retrofit applications, CT Input 5A

REL15038

⚠ Discontinued on: 10 Sept 2025

⚠ Discontinued

## 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                                               |
| measuring inputs               | : 5 A CT phase current 1                                    |
| number of Digital Inputs (DI)  | 0                                                           |
| number of Digital Outputs (DO) | 2 analog output                                             |
| number of analogue inputs      | 1 analog input                                              |
| communication ports            | 1 USB type mini B on front                                  |
| communication protocols        | Modbus RTU                                                  |
| Cybersecurity                  | Password protection                                         |
| protection functions           | Phase overcurrent 50/51                                     |
| Arc flash protection           | No                                                          |
| Relay type                     | Self-powered                                                |
| measurement functions          | Current RMS                                                 |
| logs and records               | Event recording<br>Disturbance recording<br>Fault recording |
| Connections - terminals        | Snap-on fixed                                               |

## Complementary

|                                |                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------|
| Maximum power consumption in W | 2.25 W maximum                                                                                   |
| Software name                  | Easergy Studio: device setup                                                                     |
| Display type                   | Monochrome graphic LCD                                                                           |
| Number of key                  | 9                                                                                                |
| Local signalling               | 5 x LED red/orange programmable<br>1 x LED green watchdog<br>1 x LED orange relay trip indicator |
| Communication compatibility    | Modbus RTU                                                                                       |

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

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| Standards              | EN 60255-26:2013<br>EN 60255-1:2010<br>EN 60255-27:2014 |
| Product certifications | CE                                                      |
| Height                 | Total: 106.5 mm<br>Embedded: 101.5 mm                   |
| Width                  | Total: 106.5 mm<br>Embedded: 101.5 mm                   |
| Depth                  | Total : 118 mm<br>Embedded : 113 mm                     |
| Net weight             | 1 kg maximum                                            |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Shocks (level: class 1) : 5 Gn for 11 ms conforming to EN 60255-21-2<br>Shocks withstand (level: class 1) : 10 Gn for 16 ms conforming to EN 60255-21-2<br>Bumps (level: class 1) : 15 Gn for 11 ms conforming to EN 60255-21-2<br>Vibrations (level: class 1) : 1 Gn, 10...150 Hz, 1 cycle conforming to EN 60255-21-1 |
| Ambient air temperature for operation | -20...60 °C                                                                                                                                                                                                                                                                                                                                                                                          |
| Ambient air temperature for storage   | -40...70 °C                                                                                                                                                                                                                                                                                                                                                                                          |
| IP degree of protection               | IP54 conforming to IEC 60529<br>IP20                                                                                                                                                                                                                                                                                                                                                                 |
| Relative humidity                     | 0...93 % at 40 °C, 21 days                                                                                                                                                                                                                                                                                                                                                                           |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 21.8 cm |
| Package 1 Width              | 15.8 cm |
| Package 1 Length             | 25.6 cm |
| Package 1 Weight             | 2.75 kg |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 373 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 210 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0.8 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 2 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 157 kg CO2 eq.                                |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 4 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Packaging made with recycled cardboard | No                                     |
| Packaging without single use plastic   | No                                     |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 5                                                                                                                                                                                                               |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | Yes                                                                                                                                                                                                             |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |