

# Catalogue No: **CPT-PSC4-25-400IR**

## SPD PSC TYPE 1+2 3PH L-L-L-N-PE Iimp 25kA Imsc 200kA 400V AC

Power Distribution and Protection > Switchboard Monitoring > Surge Protection > Cirprotect Electrical Network Surge Diverters > IEC Type 1+2 > PSC Surge Diverters



Representative Photo Only  
(actual product may vary based on configuration selections)

### Surge Protection Device L+L+L+N-PE I impulse 25kA

- PSC is the range of combined devices for discharging lightning currents (Type 1 / Class I), and protecting against induced transient overvoltages (Type 2 / Class II), in accordance with IEC 61643-11
- DIN rail plug-in format
- Suitable as the first step of protection in incoming power supply panels and areas with greater exposure to the atmosphere, where installations are usually provided with an external lightning protection system
- Discharges impulse currents with a 10/350  $\mu$ s waveform. Iimp: 25 kA, 12.5 kA per phase
- Remote and visual indication of protection device life status
- Reversible chassis to allow cable entry from above or below. Mechanically polarised cartridges depending on the network voltage, to avoid possible cartridge replacement errors
- Biconnect - two types of terminal: for rigid or flexible cable and for fork type comb busbar

#### SPECIFICATIONS

|                                                 |                             |
|-------------------------------------------------|-----------------------------|
| Product Series                                  | PSC                         |
| Component Type Surge Protection                 | Electrical Network Diverter |
| Poles                                           | 3P + N + E                  |
| Number of DIN Modules                           | 8                           |
| Un, Nominal Voltage, AC, L-L                    | 400 V AC                    |
| Un, Nominal Voltage, AC, L-N/PE                 | 230 V AC                    |
| Uc, Continuous Operating Voltage, AC, Max       | 275 V AC                    |
| In, Discharge Current, (8/20) L-N, Nom          | 25 kA                       |
| In, Discharge Current, (8/20) N-PE, Nom         | 50 kA                       |
| Imax, Discharge Current, (8/20) L-N, Max        | 100 kA                      |
| Imax, Discharge Current, (8/20) N-PE, Max       | 100 kA                      |
| Iimp, Current, Lightning Impulse, (10/350) L-N  | 25 kA                       |
| Iimp, Current, Lightning Impulse, (10/350) N-PE | 100 kA                      |
| Icc, Current, Short Circuit Withstand           | 25 kA                       |
| Recommended Fuse Current Rating                 | 315 A                       |
| Fuse Characteristic Type(s)                     | gL/gG                       |
| Protection Classification Standard              | IEC 61643-1<br>EN 61643-11  |
| Up, Voltage Protection Level                    | 1.3 kV @In                  |
| Rated Frequency                                 | 50 / 60 Hz                  |
| Connection Mode                                 | Parallel mode               |
| Protection Modes                                | L+L+L+N-PE modes            |
| Protection class                                | 1 + 2                       |
| Replaceable Modules                             | Yes Y/N                     |
| Visual Indication                               | Yes Y/N                     |
| Indicator Type                                  | Red / Green Flag            |
| Remote Monitoring                               | Yes Y/N                     |

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|                                                                        |                        |
|------------------------------------------------------------------------|------------------------|
| Monitoring Contact Configuration                                       | 1 CO Contact           |
| Mounting                                                               | DIN-35 Rail Mount      |
| Wire / Conductor Size, Flex Cable, Min                                 | 6 mm <sup>2</sup> min  |
| Wire / Conductor Size, Flex Cable, Max                                 | 25 mm <sup>2</sup> max |
| Wire / Conductor Size, Rigid Cable, Min                                | 6 mm <sup>2</sup> min  |
| Wire / Conductor Size, Rigid Cable, Max                                | 35 mm <sup>2</sup> max |
| Dynamic Thermal Disconnection                                          | Yes                    |
| Colour, Body / Housing                                                 | Light Grey colour      |
| IP Rating                                                              | IP20                   |
| tA, Response time (L-N)                                                | 25 ns                  |
| tA, Response time (N-PE)                                               | 100 ns                 |
| Tightening Torque, Nominal                                             | 4 Nm                   |
| Height                                                                 | 90 mm                  |
| Width                                                                  | 144 mm                 |
| I <sub>max</sub> - UL                                                  | 200 kA                 |
| I <sub>max</sub> to UL 1449 (Imsc), Discharge Current, (8/20) L-N, Max | 200 kA                 |
| Depth                                                                  | 76 mm                  |
| Weight                                                                 | 1.263 kg               |
| Operating Temperature, Min                                             | -40 °C min             |
| Operating Temperature, Max                                             | 80 °C max              |
| Certifications                                                         | CE                     |

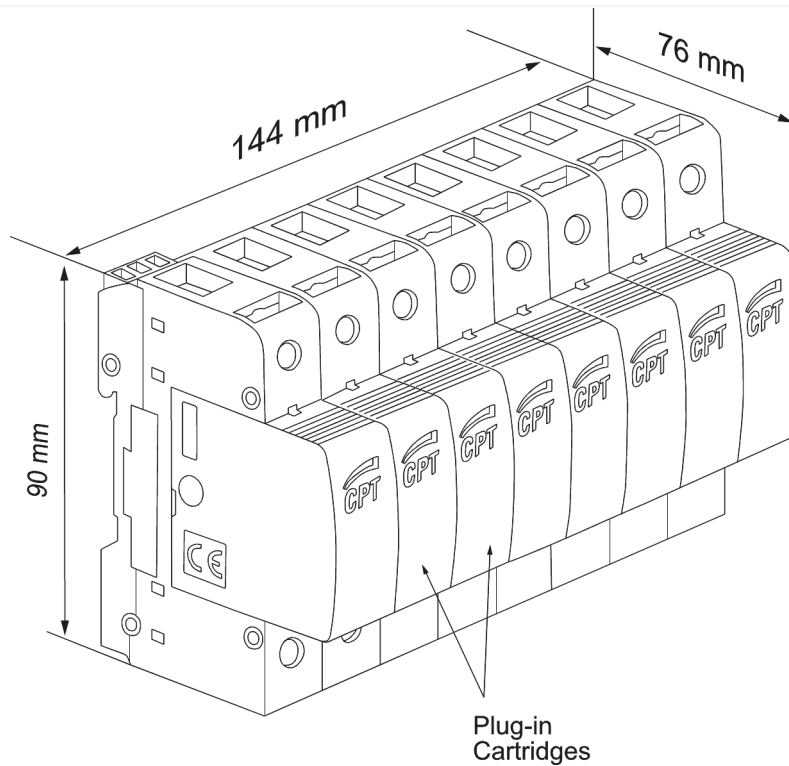
### REFERENCES

|                                             |                                                                     |
|---------------------------------------------|---------------------------------------------------------------------|
| IECEX Certificate                           | -                                                                   |
| Supplier Declaration of Conformity:         | -                                                                   |
| Installation Guide:                         | <a href="#">CPTPSC425400IR_Installation Instructions</a>            |
| User Manual:                                | -                                                                   |
| Manufacturer Datasheet:                     | <a href="#">CPTPSC425400IR_Manufacturer Datasheet</a>               |
| Manufacturer Catalogue & Product Selection: | <a href="#">CPTPSC425400IR_Manufacturer Product Selection Guide</a> |

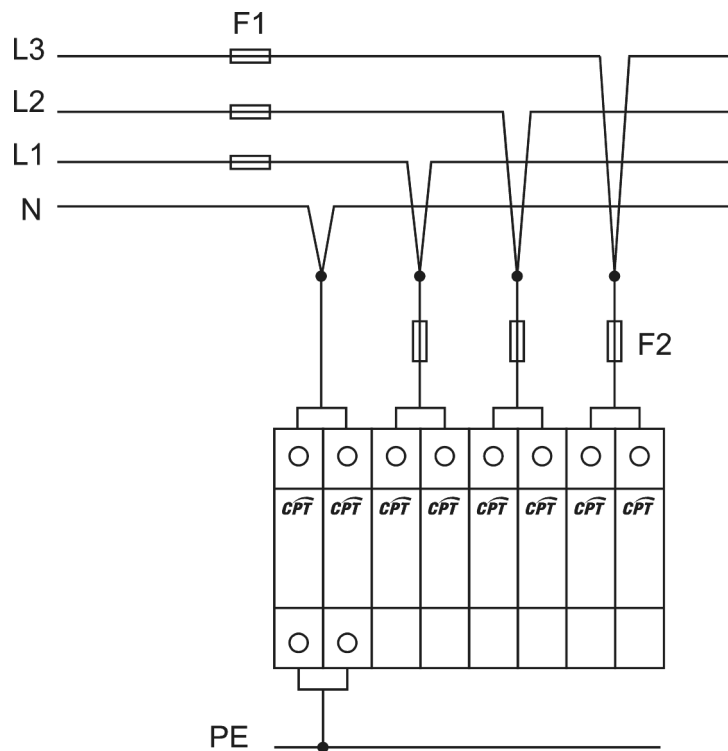
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Dimension Diagram



Connection / Wiring Diagram

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Technical Diagram