

# PT 2-TELE - Surge protection device



2882828

<https://www.phoenixcontact.com/us/products/2882828>

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Surge protective device, consisting of plug and base element, for protecting a double wire from analog and digital telecommunications interfaces (VDSL up to 50 Mbps, on short paths (< 300 m) up to 100 Mbps).

## Product description

Surge protection plug for DIN rail mounting, 2-section pluggable, normal mode voltage coarse and fine protection for 2-conductor analog telecommunication interface as well as common mode voltage coarse protection to ground.

## Your advantages

- Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- Maximum ease of maintenance, thanks to the 2-piece design
- Easy selection for all possible demands in MCR applications with a complete product portfolio

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2882828       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CL03          |
| Product key                          | CL3121        |
| GTIN                                 | 4046356115148 |
| Weight per piece (including packing) | 74.2 g        |
| Weight per piece (excluding packing) | 60.035 g      |
| Customs tariff number                | 85363010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                                |   |
|--------------------------------|---|
| Product type                   | Surge protection for information technology |
| Product family                 | PLUGTRAB PT                                 |
| IEC test classification        | B2  |
|                                | C1  |
|                                | C2  |
|                                | C3  |
|                                | D1  |
| Type                           | DIN rail module, two-section, divisible     |
| Number of positions            | 2   |
| Surge protection fault message | none  |
| Wire pairs per module          | 1   |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 2   |

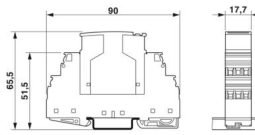
### Electrical properties

|                       |          |
|-----------------------|----------|
| Nominal voltage $U_N$ | 185 V DC |
|                       | 130 V AC |

### Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Screw thread                     | M3  |
| Tightening torque                | 0.5 Nm                                      |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross-section AWG      | 24 ... 12                                   |

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 17.7 mm  |
| Height              | 90 mm  |
| Depth               | 65.5 mm  |
| Horizontal pitch    | 1 Div.   |

### Material specifications

|       |                  |
|-------|------------------|
| Color | black (RAL 9005) |
|-------|------------------|

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|  |                  |
|--|------------------|
|  | black (RAL 9005) |
| Flammability rating according to UL 94 | V-0              |
| Housing material                       | PA 6.6           |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Protective circuit

|  |  |
|--|--|
| Direction of action  | Line-Line & Line-Earth Ground            |
| Nominal voltage $U_N$  | 185 V DC                                 |
|  | 130 V AC                                 |
| Maximum continuous operating voltage $U_C$                                 | 185 V DC                                 |
|  | 130 V AC                                 |
| Rated current  | 450 mA AC (45 °C)                        |
|  | 130 mA DC (45 °C)                        |
| Operating effective current $I_C$ at $U_C$                                 | $\leq 10 \mu\text{A}$                    |
| Protective conductor current $I_{PE}$                                      | $\leq 10 \mu\text{A}$                    |
| Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-line)           | 10 kA                                    |
| Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-ground)         | 10 kA                                    |
| Pulse discharge current $I_{imp}$ (10/350) $\mu\text{s}$ (line-line)       | 1 kA                                     |
| Pulse discharge current $I_{imp}$ (10/350) $\mu\text{s}$ (line-earth)      | 1 kA                                     |
| Total discharge current $I_{Total}$ (8/20) $\mu\text{s}$                   | 18 kA                                    |
| Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (line-earth) | 18 kA                                    |
| Nominal pulse current $I_{an}$ (10/700) $\mu\text{s}$ (line-line)          | 100 A                                    |
| Nominal pulse current $I_{an}$ (10/700) $\mu\text{s}$ (line-earth)         | 100 A                                    |
| Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) spike         | $\leq 300 \text{ V}$                     |
| Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) spike        | $\leq 300 \text{ V}$                     |
| Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) static        | $\leq 300 \text{ V}$                     |
| Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) static       | $\leq 300 \text{ V}$                     |
| Residual voltage at $I_n$ (conductor-conductor)                            | $\leq 160 \text{ V}$ (C2 - 10 kV / 5 kA) |
| Residual voltage at $I_n$ (conductor-ground)                               | $\leq 200 \text{ V}$ (C2 - 10 kV / 5 kA) |
| Voltage protection level $U_p$ (line-line)                                 | $\leq 250 \text{ V}$ (B2 - 1 kV / 25 A)  |
|  | $\leq 300 \text{ V}$ (B2 - 4 kV / 100 A) |
|  | $\leq 270 \text{ V}$ (C1 - 1 kV / 500 A) |
|  | $\leq 300 \text{ V}$ (C2 - 2 kV/1 kA)    |
|  | $\leq 320 \text{ V}$ (C2 - 4 kV / 2 kA)  |
|  | $\leq 330 \text{ V}$ (C2 - 10 kV / 5 kA) |
|  | $\leq 330 \text{ V}$ (C2 - 10 kV / 5 kA) |
| Voltage protection level $U_p$ (line-earth)                                | $\leq 250 \text{ V}$ (B2 - 1 kV / 25 A)  |
|  | $\leq 300 \text{ V}$ (B2 - 4 kV / 100 A) |
|  | $\leq 270 \text{ V}$ (C1 - 1 kV / 500 A) |
|  | $\leq 300 \text{ V}$ (C2 - 2 kV/1 kA)    |
|  | $\leq 320 \text{ V}$ (C2 - 4 kV / 2 kA)  |
|  | $\leq 330 \text{ V}$ (C2 - 10 kV / 5 kA) |
|  | $\leq 330 \text{ V}$ (C2 - 10 kV / 5 kA) |

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|   |   |
|---|---|
| Response time $t_A$ (line-line)                             | $\leq 500$ ns                               |
| Response time $t_A$ (line-earth)                            | $\leq 500$ ns                               |
| Input attenuation aE, sym.                                  | typ. 0.4 dB ( $\leq 5$ MHz / 100 $\Omega$ ) |
| Cut-off frequency $f_g$ (3 dB), sym. in 100 $\Omega$ system | typ. 20 MHz                                 |
| Capacity (Core-Core)  | typ. 30 pF (f=1 MHz / $V_R=0$ V)            |
| Capacity (Core-Earth)                                       | typ. 30 pF (f=1 MHz / $V_R=0$ V)            |
| Resistance per path   | 2.2 $\Omega \pm 10$ %                       |
| Surge protection fault message                              | none  |
| Impulse durability (line-line)                              | B2 - 4 kV / 100 A                           |
|   | C1 - 1 kV / 500 A                           |
|   | C2 - 10 kV / 5 kA                           |
|   | C3 - 25 A                                   |
|   | D1 - 1 kA                                   |
| Impulse durability (line-earth)                             | B2 - 4 kV / 100 A                           |
|   | C1 - 1 kV / 500 A                           |
|   | C2 - 10 kV / 5 kA                           |
|   | C3 - 25 A                                   |
|   | D1 - 1 kA                                   |

## Environmental and real-life conditions

### Ambient conditions

|   |                      |
|---|----------------------|
| Degree of protection                    | IP20                 |
| Ambient temperature (operation)         | -40 °C ... 85 °C     |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C     |
| Altitude                                | $\leq 2000$ m (amsl) |

## Standards and regulations

|                          |              |
|--------------------------|--------------|
| Standards/specifications | IEC 61643-21 |
| Note                     | 2000         |
| Standards/specifications | EN 61643-21  |
| Note                     | 2002         |

## Mounting

|               |                 |
|---------------|-----------------|
| Mounting type | DIN rail: 35 mm |
|---------------|-----------------|

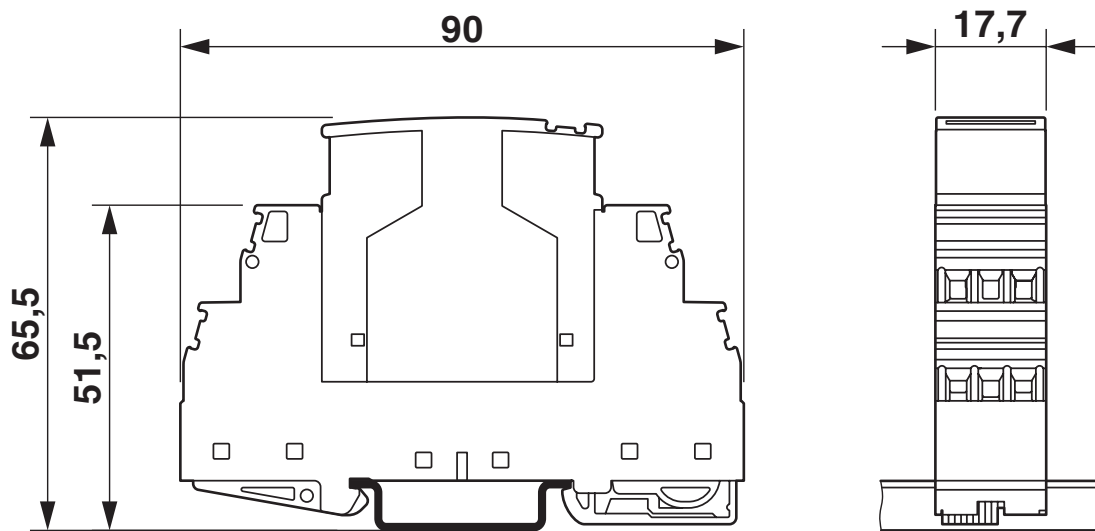
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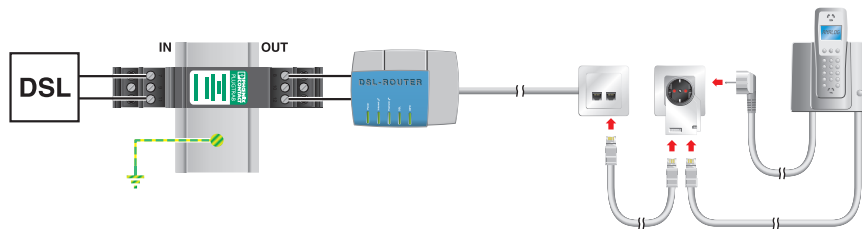
<https://www.phoenixcontact.com/us/products/2882828>

## Drawings

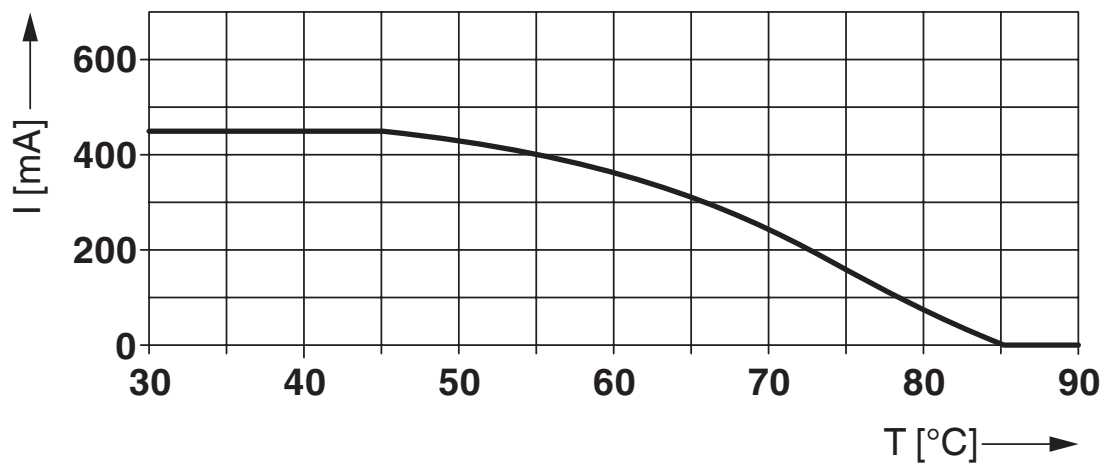
Dimensional drawing



Application drawing



Diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2882828>



**UL Listed**

Approval ID: FILE E 477688



**cUL Listed**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27171503 |
| ECLASS-15.0 | 27171503 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001625 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |              |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 124fdb5c-fa63-4f66-8343-b4bac01df1b5 |

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