

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 |

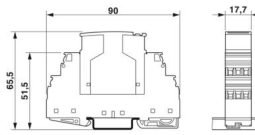
Electrical properties

| | |
|-----------------------|----------|
| 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 ² ... 2.5 mm ² |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| 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) μs (line-line) | 10 kA |
| Nominal discharge current I_n (8/20) μs (line-ground) | 10 kA |
| Pulse discharge current I_{imp} (10/350) μs (line-line) | 1 kA |
| Pulse discharge current I_{imp} (10/350) μs (line-earth) | 1 kA |
| Total discharge current I_{Total} (8/20) μs | 18 kA |
| Max. discharge current I_{max} (8/20) μs maximum (line-earth) | 18 kA |
| Nominal pulse current I_{an} (10/700) μs (line-line) | 100 A |
| Nominal pulse current I_{an} (10/700) μs (line-earth) | 100 A |
| Output voltage limitation at 1 kV/ μs (line-line) spike | $\leq 300 \text{ V}$ |
| Output voltage limitation at 1 kV/ μs (line-earth) spike | $\leq 300 \text{ V}$ |
| Output voltage limitation at 1 kV/ μs (line-line) static | $\leq 300 \text{ V}$ |
| Output voltage limitation at 1 kV/ μs (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) | ≤ 500 ns |
| Response time t_A (line-earth) | ≤ 500 ns |
| Input attenuation aE, sym. | typ. 0.4 dB (≤ 5 MHz / 100 Ω) |
| Cut-off frequency f_g (3 dB), sym. in 100 Ω 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 | ≤ 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 |
|---------------|-----------------|

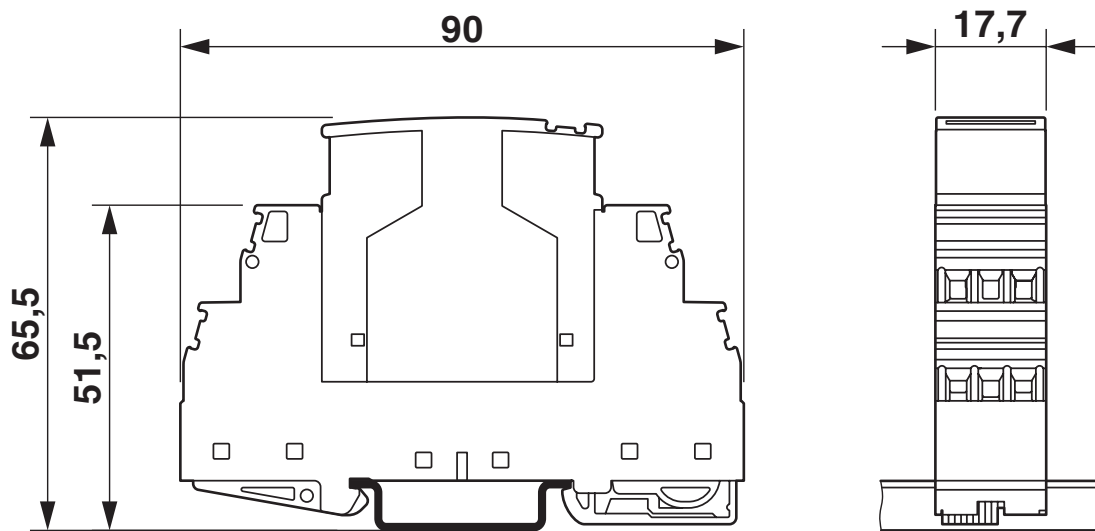
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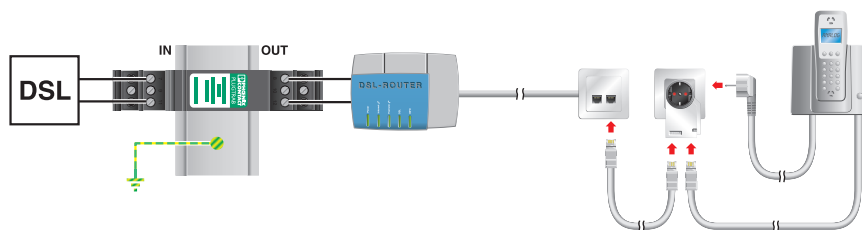
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Drawings

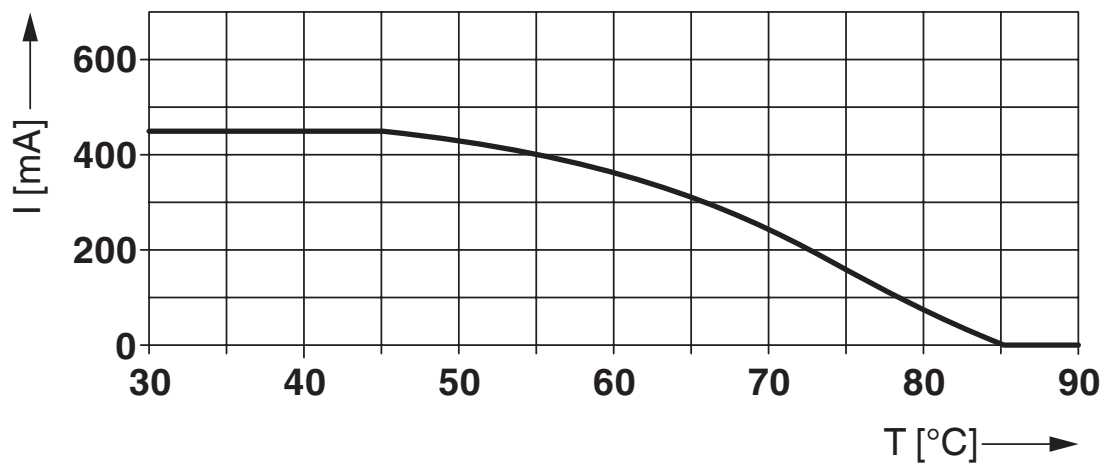
Dimensional drawing



Application drawing



Diagram



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Approvals

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UL Listed

Approval ID: FILE E 477688



cUL Listed

Approval ID: FILE E 477688

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Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001466 |
|-----------|----------|

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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com