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# Surge protection device - PT 2-TELE - 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.

## Why buy this product

- ✓ For ISDN Uk0 and DSL applications
- ✓ For analog telecommunications
- ✓ Two-piece, plug-in
- ✓ Broadband protection for telecommunications lines
- ✓ Worldwide use
- ✓ High discharge capacity
- ✓ Plugs can be checked with CHECKMASTER



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 10 STK  |
| GTIN         | <br>4 046356 115148 |
| GTIN         | 4046356115148   |

## Technical data

### Dimensions

|                        |         |
|------------------------|---------|
| Height                 | 90 mm   |
| Width                  | 17.7 mm |
| Depth                  | 65.5 mm |
| Horizontal pitch       | 1 Div.  |
| Complete module height | 90 mm   |
| Complete module width  | 17.7 mm |

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## Technical data

### Dimensions

|                       |         |
|-----------------------|---------|
| Complete module depth | 65.5 mm |
|-----------------------|---------|

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection                    | IP20             |

### General

|  |   |
|--|---|
| Housing material                       | PA 6.6                                  |
| Flammability rating according to UL 94 | V-0                                     |
| Color                                  | jet black RAL 9005                      |
| Mounting type                          | DIN rail: 35 mm                         |
| Type                                   | DIN rail module, two-section, divisible |
| Number of positions                    | 2                                       |
| Direction of action                    | Line-Line & Line-Earth Ground           |

### Protective circuit

|  |                  |
|--|------------------|
| IEC test classification  | B2               |
|  | C1               |
|  | C2               |
|  | C3               |
|  | D1               |
| VDE requirement class  | B2               |
|  | C1               |
|  | C2               |
|  | C3               |
|  | D1               |
| Nominal voltage $U_N$  | 185 V DC         |
|  | 130 V AC         |
| Maximum continuous 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 $U_C$                           | $\leq 10 \mu A$  |
| Residual current $I_{PE}$  | $\leq 10 \mu A$  |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-line)           | 10 kA            |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-earth)          | 10 kA            |
| Pulse discharge current $I_{imp}$ (10/350) $\mu s$ (line-line)       | 1 kA             |
| Pulse discharge current $I_{imp}$ (10/350) $\mu s$ (line-earth)      | 1 kA             |
| Total discharge current $I_{total}$ (8/20) $\mu s$                   | 18 kA            |
| Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-earth) | 18 kA            |
| Nominal pulse current $I_{an}$ (10/700) $\mu s$ (line-line)          | 100 A            |

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## Technical data

### Protective circuit

|  |   |
|--|---|
| Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-earth)   | 100 A                                       |
| Output voltage limitation at 1 kV/ $\mu$ s (line-line) spike   | $\leq 300$ V                                |
| Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike  | $\leq 300$ V                                |
| Output voltage limitation at 1 kV/ $\mu$ s (line-line) static  | $\leq 300$ V                                |
| Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static | $\leq 300$ V                                |
| Residual voltage at $I_n$ (line-line)                          | $\leq 160$ V (C2 - 10 kV / 5 kA)            |
| Residual voltage at $I_n$ (line-earth)                         | $\leq 200$ V (C2 - 10 kV / 5 kA)            |
| Voltage protection level $U_p$ (line-line)                     | $\leq 250$ V (B2 - 1 kV / 25 A)             |
|  | $\leq 300$ V (B2 - 4 kV / 100 A)            |
|  | $\leq 270$ V (C1 - 1 kV/500 A)              |
|  | $\leq 300$ V (C2 - 2 kV/1 kA)               |
|  | $\leq 320$ V (C2 - 4 kV / 2 kA)             |
|  | $\leq 330$ V (C2 - 10 kV / 5 kA)            |
| Voltage protection level $U_p$ (line-earth)                    | $\leq 250$ V (B2 - 1 kV / 25 A)             |
|  | $\leq 300$ V (B2 - 4 kV / 100 A)            |
|  | $\leq 270$ V (C1 - 1 kV/500 A)              |
|  | $\leq 300$ V (C2 - 2 kV/1 kA)               |
|  | $\leq 320$ V (C2 - 4 kV / 2 kA)             |
|  | $\leq 330$ V (C2 - 10 kV / 5 kA)            |
| 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 Ohm system         | typ. 20 MHz                                 |
| Capacity (line-line)   | typ. 30 pF (f=1 MHz / $V_R=0$ V)            |
| Capacity (line-earth)  | typ. 30 pF (f=1 MHz / $V_R=0$ V)            |
| Resistance in series   | 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                                   |

### Connection data

|                      |                       |
|----------------------|-----------------------|
| Connection method    | Screw connection      |
| Connection method IN | Screw terminal blocks |

# Surge protection device - PT 2-TELE - 2882828

## Technical data

### Connection data

|                                  |   |
|----------------------------------|---|
| Connection method OUT            | Screw terminal blocks                       |
| Screw thread                     | M3  |
| Tightening torque                | 0.5 Nm                                      |
| Stripping length                 | 8 mm  |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section solid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section AWG      | 24 ... 12                                   |

### Standards and Regulations

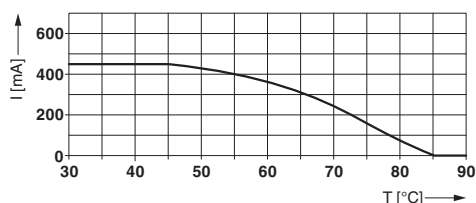
|                          |                   |
|--------------------------|-------------------|
| Standards/specifications | IEC 61643-21 2000 |
|                          | EN 61643-21 2002  |

### Environmental Product Compliance

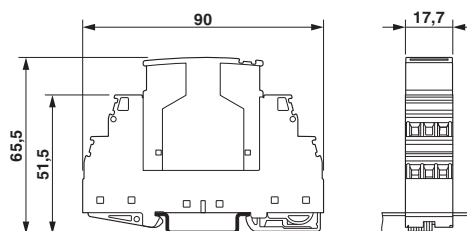
|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

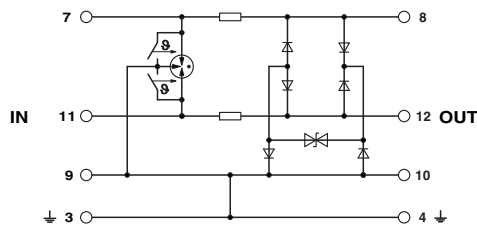
Diagram



Dimensional drawing

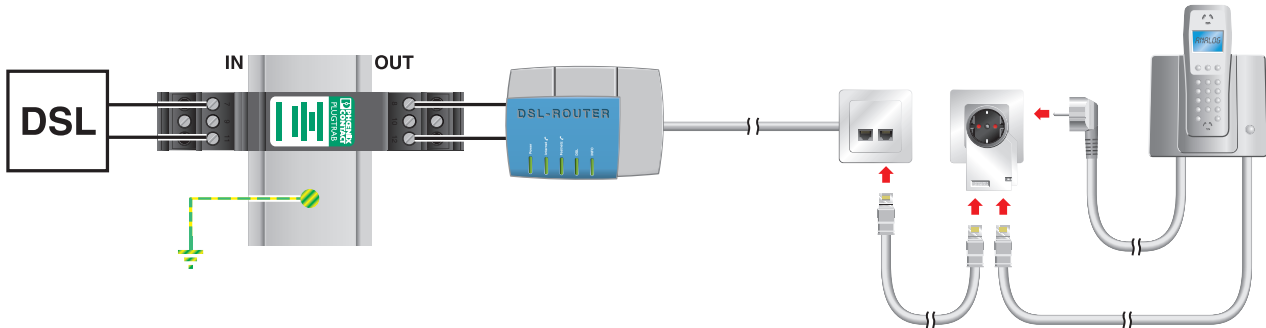


Circuit diagram



# Surge protection device - PT 2-TELE - 2882828

Application drawing



## Approvals

### Approvals

Approvals

EAC / EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

### Approval details

|            |  |   |                         |
|------------|--|---|-------------------------|
| EAC        |  |   | RU C-<br>DE.A*30.B01561 |
| EAC        |  |   | EAC-Zulassung           |
| UL Listed  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 477688           |
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 477688           |

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### Approvals

cULus Listed



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