

## Type 3 surge protection device - MNT-TAE D - 2882381

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Socket attachment plug with surge protection for the power supply and signal connection of an end device with analog or digital telecommunications interface (VDSL up to 50 Mbps, on short paths (< 300 m) up to 80 Mbps). Cable is included.




### Your advantages

- Easy operation
- Thermal monitoring of the protective circuit
- Compact protection for termination devices
- Green LED - operating indicator for the power supply



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 073455 |
| GTIN                                 | 4046356073455   |
| Weight per Piece (excluding packing) | 194.000 g   |
| Custom tariff number                 | 85363010  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|        |        |
|--------|--------|
| Height | 103 mm |
| Width  | 63 mm  |
| Depth  | 78 mm  |

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -25 °C ... 75 °C |
| Ambient temperature (storage/transport) | -25 °C ... 75 °C |

#### General

|                  |      |
|------------------|------|
| Housing material | PA 6 |
|------------------|------|

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## Technical data

### General

|  |                                   |
|--|-----------------------------------|
| Flammability rating according to UL 94 | V-0                               |
| Color                                  | jet black RAL 9005                |
| For country-specific use in            | D                                 |
| Mounting type                          | Plugging into the mains socket    |
| Type                                   | Attachment plug                   |
| Direction of action                    | L/N-PE & Signal Line-Earth Ground |

### Protective circuit, power supply

|  |                   |
|--|-------------------|
| EN type  | T3                |
| Nominal voltage $U_N$                          | 230 V AC          |
| Arrester rated voltage $U_C$ (L-N)             | 275 V AC          |
| Arrester rated voltage $U_C$ (L-PE)            | 360 V AC          |
| Arrester rated voltage $U_C$ (N-PE)            | 360 V AC          |
| Nominal frequency $f_N$                        | 50 Hz (60 Hz)     |
| Rated load current $I_L$                       | 16 A (30 °C)      |
| Standby power consumption $P_C$                | $\leq 1$ VA       |
| Residual current $I_{PE}$                      | $\leq 5$ $\mu$ A  |
| Nominal discharge current $I_n$ (8/20) $\mu$ s | 3 kA (> 5x)       |
| Combination wave $U_{OC}$                      | 4 kV              |
| Energy absorption symmetrical                  | 140 J (L-N)       |
| Energy absorption, asymmetrical                | 220 J (L(N)-PE)   |
| Voltage protection level $U_p$ (L-N)           | $\leq 1.2$ kV     |
| Voltage protection level $U_p$ (L-PE)          | $\leq 1.5$ kV     |
| Voltage protection level $U_p$ (N-PE)          | $\leq 1.5$ kV     |
| Response time (L-N)                            | $\leq 25$ ns      |
| Response time (L-PE)                           | $\leq 100$ ns     |
| Response time (N-PE)                           | $\leq 100$ ns     |
| Surge protection fault message                 | optical           |
| Max. required back-up fuse                     | 16 A (gG / B / C) |

### Connection (protective circuit, power supply)

|                       |                       |
|-----------------------|-----------------------|
| Connection method     | Grounding plug/socket |
| Connection method IN  | Grounding plug        |
| Connection method OUT | Grounding socket      |

### Protective circuit, information technology

|  |                     |
|--|---------------------|
| Arrester rated voltage $U_C$               | 200 V DC            |
| Rated current                              | 150 mA (25 °C)      |
| Operating effective current $I_C$ at $U_C$ | $\leq 150$ $\mu$ A  |
| Residual current $I_{PE}$                  | $\leq 2$ $\mu$ A    |
| Insulation resistance $R_{iso}$            | $\geq 1$ M $\Omega$ |

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## Technical data

### Protective circuit, information technology

|  |                                   |
|--|-----------------------------------|
|  | $\geq 1 \text{ G}\Omega$          |
| Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-line)           | 1 kA                              |
| Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-earth)          | 2.5 kA                            |
| Max. discharge current $I_{\text{max}}$ (8/20) $\mu\text{s}$               | 2.5 kA                            |
| Voltage protection level $U_p$ (line-line)                                 | $\leq 460 \text{ V}$ (C2 - 1 kA)  |
|  | $\leq 350 \text{ V}$ (C3 - 25 A)  |
| Voltage protection level $U_p$ (line-earth)                                | $\leq 900 \text{ V}$ (C2 - 2 kA)  |
|  | $\leq 900 \text{ V}$ (C3 - 100 A) |
| Response time $t_A$ (line-line)  | $\leq 25 \text{ ns}$              |
| Response time $t_A$ (line-earth)   | $\leq 100 \text{ ns}$             |
| Cut-off frequency $f_g$ (3 dB), sym. in 100 Ohm system                     | typ. 4 MHz                        |
| Cut-off frequency $f_g$ (3 dB), sym. in 150 Ohm system                     | typ. 3 MHz                        |
| Cut-off frequency $f_g$ (3 dB), sym. in 600 Ohm system                     | typ. 700 kHz                      |
| Capacity (line-line)   | typ. 1 nF                         |
| Capacity (line-earth)  | typ. 5 pF                         |
| Output voltage limitation at 1 kV/ $\mu\text{s}$ (wire-wire)               | $\leq 360 \text{ V}$              |
| Residual voltage at $I_n$ (line-line)                                      | $\leq 500 \text{ V}$              |
| Residual voltage at $I_n$ (line-earth)                                     | $\leq 30 \text{ V}$               |
| Residual voltage with $I_{\text{an}}$ (10/1000) $\mu\text{s}$ (line-line)  | $\leq 35 \text{ V}$               |
| Residual voltage with $I_{\text{an}}$ (10/1000) $\mu\text{s}$ (line-earth) | $\leq 35 \text{ V}$               |
| Impulse durability (line-line)   | C2 - 2 kV / 1 kA                  |
|  | C3 - 25 A                         |
| Impulse durability (line-earth)  | C2 - 4 kV / 2 kA                  |
|  | C3 - 100 A                        |
|  | D1 - 500 A                        |
| Alternating current carrying capacity (line-line)                          | 250 mA - 1 s                      |
| Alternating current carrying capacity (line-earth)                         | 10 A - 1 s                        |
| Pulse reset time (line-line)   | $\leq 15 \text{ ms}$              |

### Power supply, general

|                       |                       |
|-----------------------|-----------------------|
| Connection method     | RJ12-/TAE 6           |
| Connection method IN  | RJ12 female connector |
| Connection method OUT | TAE 6 socket          |

### Connection, equipotential bonding, information technology

|                   |                             |
|-------------------|-----------------------------|
| Connection method | Via protective contact plug |
|-------------------|-----------------------------|

### Standards (protective circuit, information technology)

|                         |    |
|-------------------------|----|
| IEC test classification | C1 |
|                         | C2 |
|                         | C3 |

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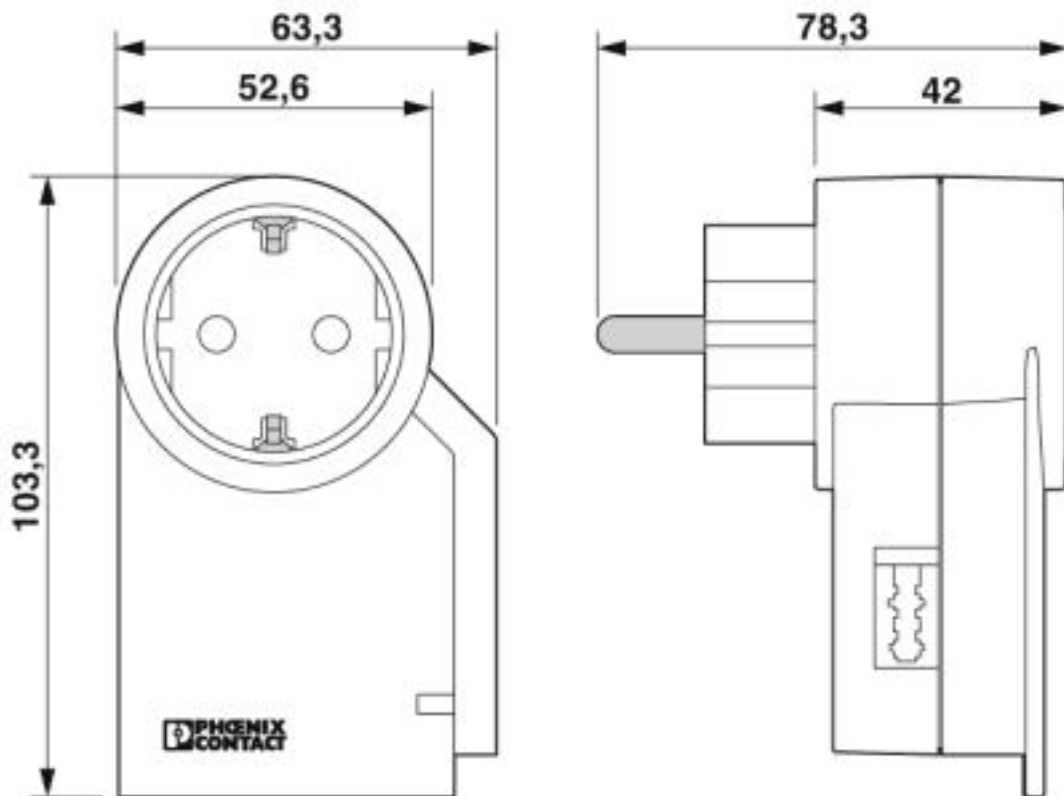
## Technical data

Standards (protective circuit, information technology)

|  |    |
|--|----|
|  | D1 |
|--|----|

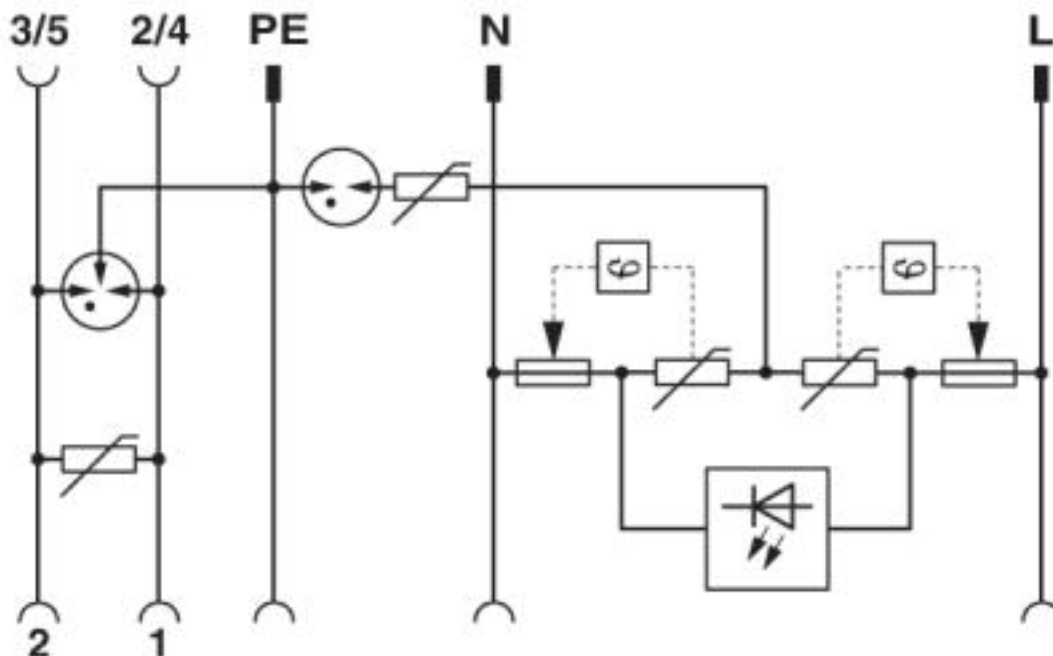
## Drawings

Dimensional drawing



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Circuit diagram



## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27130800 |
| eCl@ss 4.1 | 27130800 |
| eCl@ss 5.0 | 27130800 |
| eCl@ss 5.1 | 27130800 |
| eCl@ss 6.0 | 27130800 |
| eCl@ss 7.0 | 27130810 |
| eCl@ss 8.0 | 27130810 |
| eCl@ss 9.0 | 27130810 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001473 |
| ETIM 3.0 | EC001473 |
| ETIM 4.0 | EC001473 |
| ETIM 5.0 | EC001473 |
| ETIM 6.0 | EC001473 |
| ETIM 7.0 | EC001473 |

UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11     | 39121610 |

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## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2  | 39121620 |
| UNSPSC 18.0  | 39121620 |
| UNSPSC 19.0  | 39121620 |
| UNSPSC 20.0  | 39121620 |
| UNSPSC 21.0  | 39121620 |

## Approvals

### Approvals

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Approvals


EAC

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Ex Approvals

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### Approval details

|     |   |                         |
|-----|---|-------------------------|
| EAC |  | RU C-<br>DE.A*30.B01561 |
|-----|---|-------------------------|

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