

# Type 3 surge protection device - MNT-TELE E - 2882417

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Socket attachment plug with surge protection for the power supply and signal connection of a termination device with analog or digital telecommunications interface (VDSL up to 46 Mbps). Cable is included.

## Product Features

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



## Key commercial data

package_quantity	1
GTIN	4046356073486

## Technical data

### Dimensions

Height	79 mm
Width	63 mm
Depth	103.5 mm

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
Degree of protection	IP20 (child-proof)

### General

Housing material	PA
Inflammability class according to UL 94	V0/HB
Standards for air and creepage distances	VDE 0110-1
Standards for air and creepage distances	IEC 60664-1
Standards for air and creepage distances	IEC 61643-1
Standards for air and creepage distances	EN 61643-11
Total surge current (8/20) µs	10 kA
Color	black
For country-specific use in	E, P, I, NL, LUX

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## Technical data

### General

<b>Mounting type</b>	Plugging into the mains socket
<b>Design</b>	Attachment plug
<b>Direction of action</b>	L/N-PE & Signal Line-Earth Ground

### Protective circuit, power supply

<b>IEC test classification</b>	III
<b>IEC test classification</b>	T3
<b>EN type</b>	T3
<b>Nominal voltage <math>U_N</math></b>	230 V AC
<b>Arrester rated voltage <math>U_C</math> (L-N)</b>	275 V AC
<b>Arrester rated voltage <math>U_C</math> (L-PE)</b>	360 V AC (L/N-PE)
<b>Arrester rated voltage <math>U_C</math> (N-PE)</b>	360 V AC (L/N-PE)
<b>Nominal frequency <math>f_N</math></b>	50 Hz
<b>Nominal frequency <math>f_N</math></b>	60 Hz
<b>Nominal current <math>I_N</math></b>	16 A (30 °C)
<b>Residual current <math>I_{PE}</math></b>	$\leq 1 \mu\text{A}$
<b>Nominal discharge current <math>I_n</math> (8/20) <math>\mu\text{s}</math></b>	3 kA
<b>Nominal discharge current <math>I_n</math> (8/20) <math>\mu\text{s}</math> (L-N)</b>	3 kA
<b>Nominal discharge current <math>I_n</math> (8/20) <math>\mu\text{s}</math> (L-PE)</b>	3 kA
<b>Max. discharge current <math>I_{max}</math> (8/20) <math>\mu\text{s}</math></b>	8 kA (> 100x 1 kA)
<b>Combined surge <math>U_{oc}</math></b>	4 kV
<b>Energy absorption symmetrical</b>	140 J (L-N)
<b>Energy absorption, asymmetrical</b>	220 J (L(N)-PE)
<b>Voltage protection level <math>U_P</math> (L-N)</b>	$\leq 1.2$ kV
<b>Voltage protection level <math>U_P</math> (L-N)</b>	$\leq 1$ kV (at 1 kA (8/20 $\mu\text{s}$ ))
<b>Voltage protection level <math>U_P</math> (L-PE)</b>	$\leq 1.5$ kV
<b>Voltage protection level <math>U_P</math> (N-PE)</b>	$\leq 1.5$ kV
<b>Total surge current (8/20) <math>\mu\text{s}</math></b>	10 kA
<b>Response time (L-N)</b>	$\leq 25$ ns
<b>Response time (L-PE)</b>	$\leq 100$ ns
<b>Response time (N-PE)</b>	$\leq 100$ ns
<b>Message: Surge protection fault</b>	Optical
<b>Max. required back-up fuse</b>	16 A (gL/C)

### Connection (protective circuit, power supply)

<b>Connection method</b>	Grounding plug/socket
<b>Connection type IN</b>	Grounding plug
<b>Connection type OUT</b>	Grounding socket

### Standards (protective circuit, power supply)

<b>Standards/regulations</b>	IEC 61643-1
<b>Standards/regulations</b>	EN 61643-11/A11

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## Technical data

Standards (protective circuit, power supply)

Standards/regulations	VDE 0620-1
Standards/regulations	SEK SS 428 08 34

Protective circuit, information technology

Arrester rated voltage $U_c$ (Core-Core)	200 V DC
Arrester rated voltage $U_c$ (Core-Earth)	380 V DC
Nominal current $I_N$	1.5 A (25 °C)
Operating effective current $I_c$ at $U_c$	$\leq 150 \mu\text{A}$
Residual current $I_{PE}$	$\leq 2 \mu\text{A}$
Insulation resistance $R_{iso}$	$\geq 1 \text{ M}\Omega$ (core-core)
Insulation resistance $R_{iso}$	$\geq 1 \text{ G}\Omega$ (Core-PE)
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Core)	1 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	2.5 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$	2.5 kA
Voltage protection level $U_p$ (Core-Core)	$\leq 460 \text{ V}$ (C2 - 1 kA)
Voltage protection level $U_p$ (Core-Core)	$\leq 350 \text{ V}$ (C3 - 25 A)
Voltage protection level $U_p$ (Core-Earth)	$\leq 900 \text{ V}$ (C2 - 2 kA)
Voltage protection level $U_p$ (Core-Earth)	$\leq 900 \text{ V}$ (C3 - 100 A)
Response time $t_A$ (Core-Core)	$\leq 25 \text{ ns}$
Response time $t_A$ (Core-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 (Core-Core)	typ. 1 nF
Capacity (Core-Earth)	typ. 5 pF
Output voltage limitation at 1 kV/ $\mu\text{s}$ (wire-wire)	$\leq 360 \text{ V}$
Residual voltage at $I_n$ , (conductor-conductor)	$\leq 500 \text{ V}$
Residual voltage at $I_n$ , (conductor-ground)	$\leq 30 \text{ V}$
Residual voltage with $I_{an}$ (10/1000) $\mu\text{s}$ (conductor-conductor)	$\leq 35 \text{ V}$
Residual voltage with $I_{an}$ (10/1000) $\mu\text{s}$ (conductor-ground)	$\leq 35 \text{ V}$
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 (2 kV / 1 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C3 (25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (4 kV / 2 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (500 A)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Core)	250 mA - 1 s
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	10 A - 1 s
Pulse reset time $t_r$ in acc. with IEC 61643-21 (Core-Core)	$\leq 10 \text{ ms}$
Overload fault mode in acc. with IEC 61643-21 (Core-Core)	Mode 3
Overload fault mode in acc. with IEC 61643-21 (Core-Earth)	Mode 3

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## Technical data

### Power supply, general

<b>Connection method</b>	RJ12
<b>Connection type IN</b>	RJ12 female connector
<b>Connection type OUT</b>	RJ12 female connector

### Connection, equipotential bonding, information technology

<b>Connection method</b>	Via protective contact plug
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### Standards (protective circuit, information technology)

<b>IEC test classification</b>	C1
<b>IEC test classification</b>	C2
<b>IEC test classification</b>	C3
<b>IEC test classification</b>	D1
<b>Standards/regulations</b>	IEC 61643-21

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27140201
<b>eCl@ss 4.1</b>	27130801
<b>eCl@ss 5.0</b>	27130801
<b>eCl@ss 5.1</b>	27130801
<b>eCl@ss 6.0</b>	27130810
<b>eCl@ss 7.0</b>	27130810
<b>eCl@ss 8.0</b>	27130810

### ETIM

<b>ETIM 2.0</b>	EC001473
<b>ETIM 3.0</b>	EC001473
<b>ETIM 4.0</b>	EC000942
<b>ETIM 5.0</b>	EC000942

### UNSPSC

<b>UNSPSC 6.01</b>	30212010
<b>UNSPSC 7.0901</b>	39121610
<b>UNSPSC 11</b>	39121610
<b>UNSPSC 12.01</b>	39121610
<b>UNSPSC 13.2</b>	39121620

## approvals

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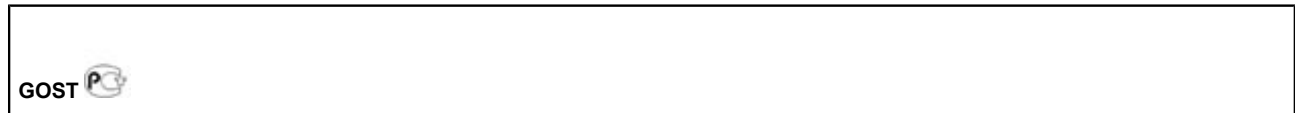
VDE Zeichengenehmigung / GOST /

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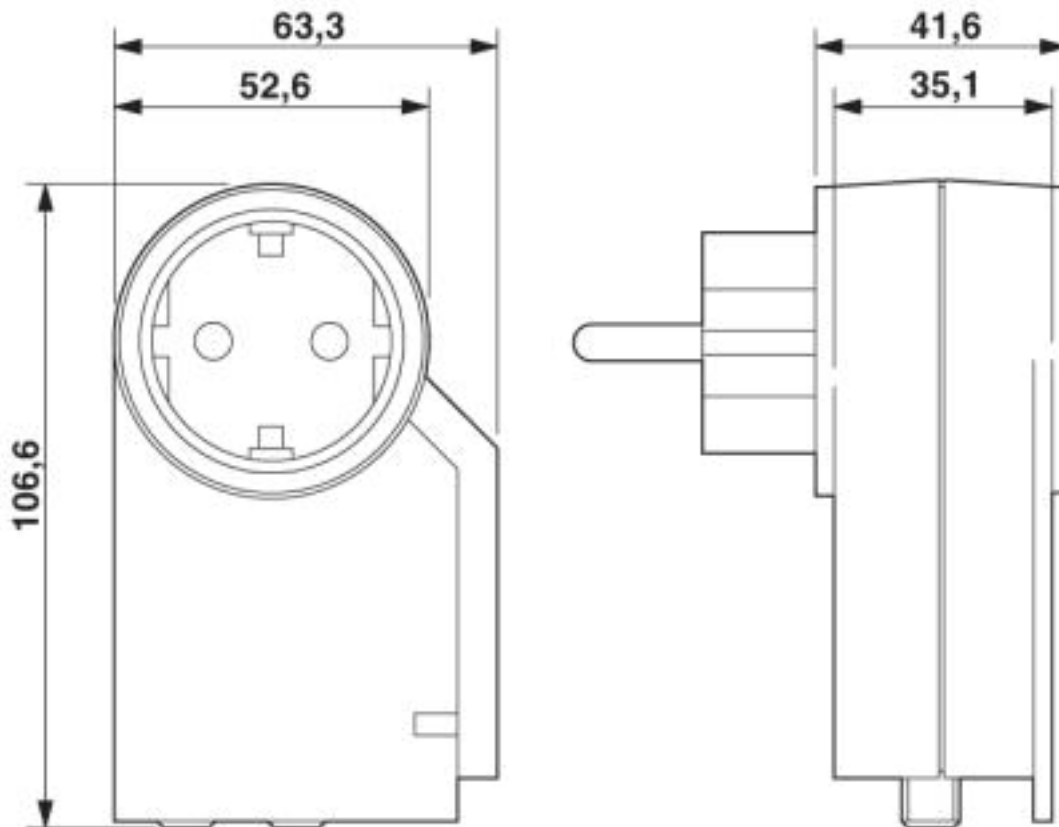
approvals

Approval details



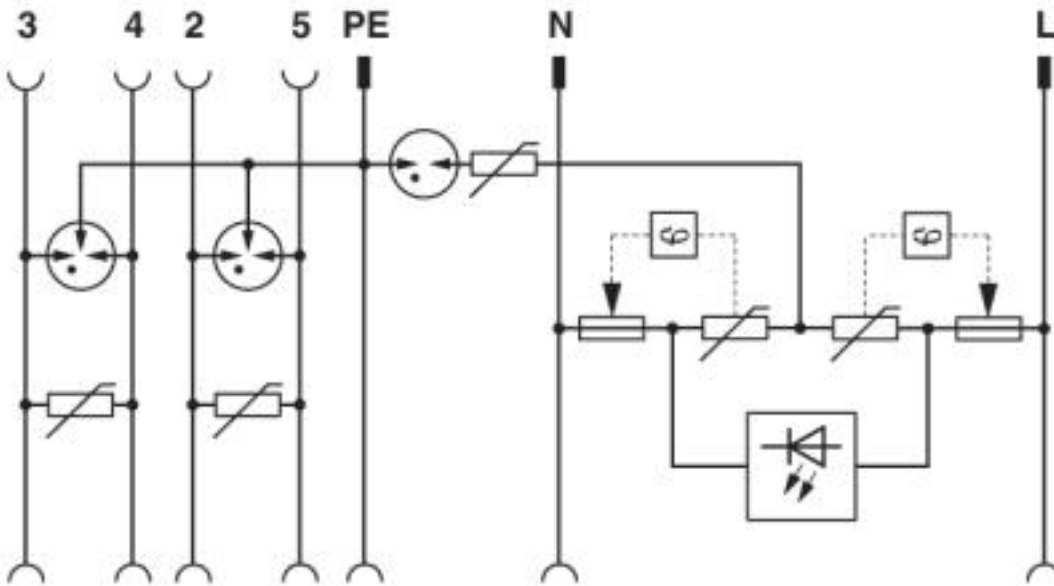
Drawings

Dimensioned drawing



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Circuit diagram



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