

## Type 3 surge protection device - MNT-TAE D/WH - 2882394

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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



VDSL

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 073462
GTIN	4046356073462

### 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
Flammability rating according to UL 94	V-0
Color	pure white RAL 9010
For country-specific use in	D

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## Technical data

### General

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
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 $\Omega$
	$\geq 1$ G $\Omega$
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-line)	1 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-earth)	2.5 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s	2.5 kA
Voltage protection level $U_p$ (line-line)	$\leq 460$ V (C2 - 1 kA)

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## Technical data

### Protective circuit, information technology

	≤ 350 V (C3 - 25 A)
Voltage protection level $U_p$ (line-earth)	≤ 900 V (C2 - 2 kA)
	≤ 900 V (C3 - 100 A)
Response time $t_A$ (line-line)	≤ 25 ns
Response time $t_A$ (line-earth)	≤ 100 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/μs (wire-wire)	≤ 360 V
Residual voltage at $I_n$ (line-line)	≤ 500 V
Residual voltage at $I_n$ (line-earth)	≤ 30 V
Residual voltage with $I_{an}$ (10/1000) μs (line-line)	≤ 35 V
Residual voltage with $I_{an}$ (10/1000) μs (line-earth)	≤ 35 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)	≤ 15 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
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### Standards (protective circuit, information technology)

IEC test classification	C1
	C2
	C3
	D1

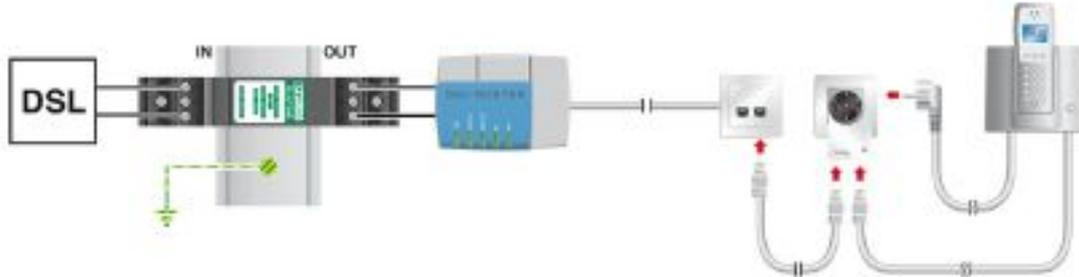
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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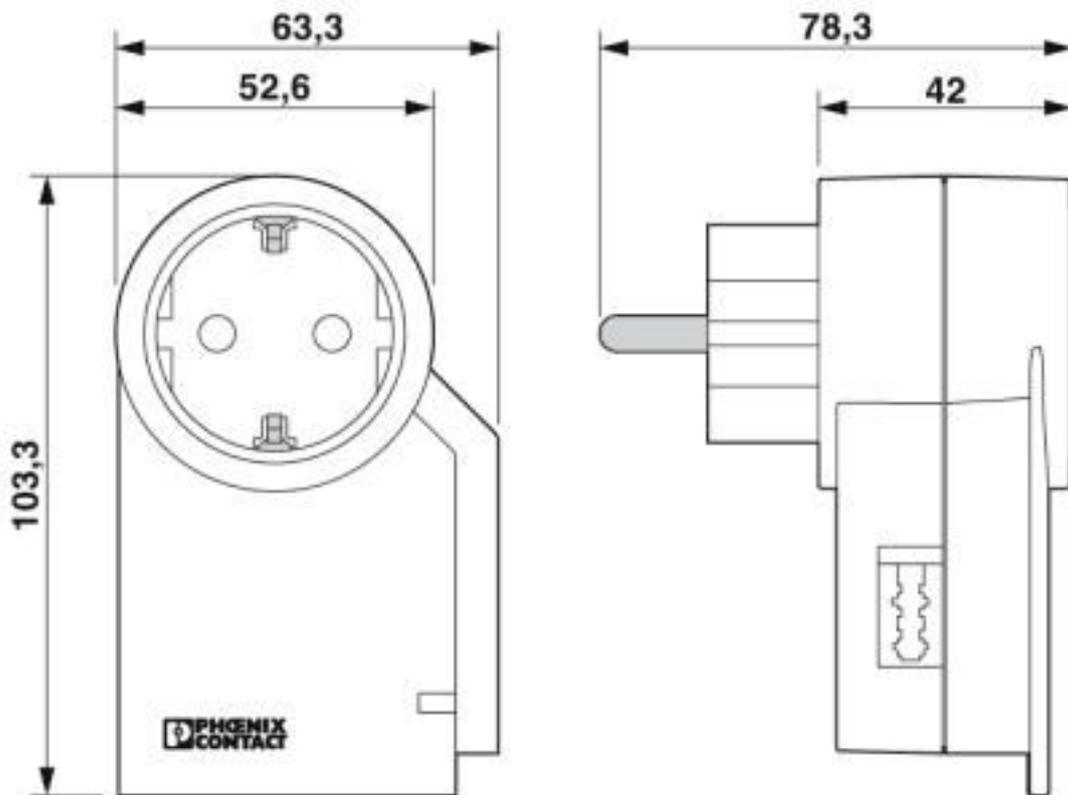
## Drawings

# Type 3 surge protection device - MNT-TAE D/WH - 2882394

Application drawing

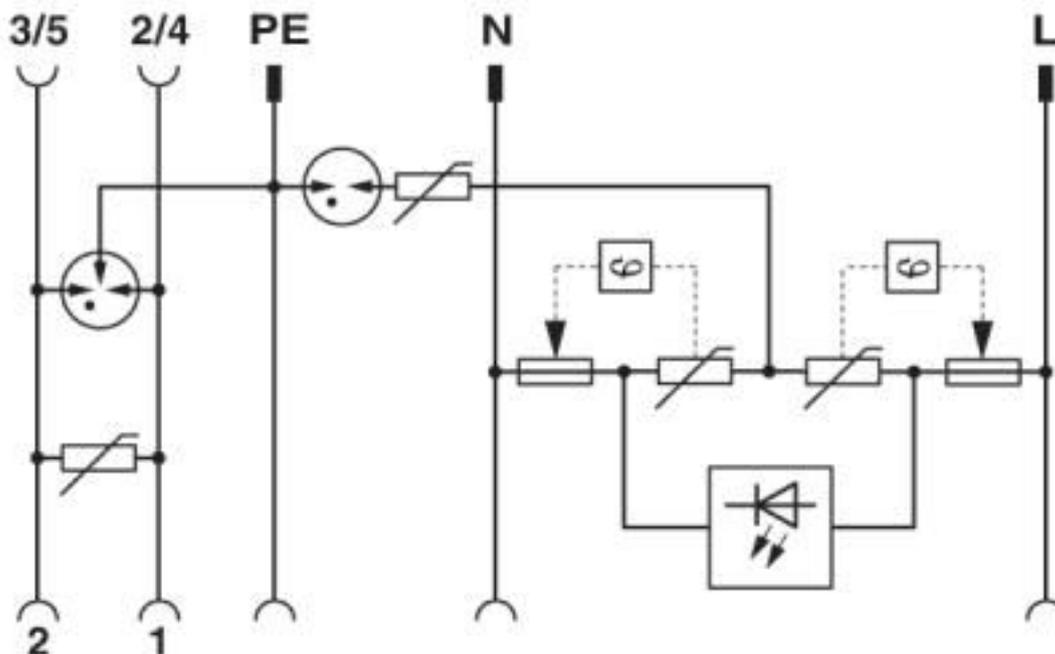


Dimensional drawing



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Circuit diagram



### Classifications

eCl@ss

eCl@ss 10.0.1	27130810
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

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## Classifications

### UNSPSC

UNSPSC 11	39121610
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- DE.*09.B.00169
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