

MNT-TAE D - Type 3 surge protection device



2882381

<https://www.phoenixcontact.com/us/products/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

- Optimal additional protection of the building installation for longer service life and increased availability of the end devices
- Industrial quality for residential buildings, thanks to compliance with international product standard
- Meets the most stringent safety requirements with thermal monitoring and additional fuses
- Special router protection, thanks to simultaneous protection of the power supply and the signals

Commercial data

Item number	2882381
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CL1423
GTIN	4046356073455
Weight per piece (including packing)	200.7 g
Weight per piece (excluding packing)	194 g
Country of origin	DE

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Technical data

Product properties

Product type	Device protection
Product family	MAINTRAB
IEC test classification	C1
	C2
	C3
	D1
IEC power supply system	TN
	TT
Type	Intermediate plug
Number of positions	2
For country-specific use in	D
Surge protection fault message	optical
Wire pairs per module	1

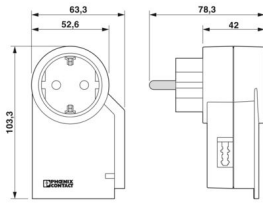
Insulation characteristics

Overvoltage category	III
Pollution degree	2
IEC test classification	III
	T3
EN type	T3
Number of ports	One

Connection data

Connection method	RJ12-/TAE 6
Connection method	Grounding plug/socket

Dimensions

Dimensional drawing	
Width	63 mm
Height	103 mm
Depth	78 mm

Material specifications

Color	black (RAL 9005)
	black (RAL 9005)

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Flammability rating according to UL 94	V-0
CTI value of material	400
	600
Insulating material	PA 6
Housing material	PA 6

Protective circuit

Power supplies

Direction of action	L/N-PE & Signal Line-Earth Ground
Nominal voltage U_N	230/400 V AC (TN/TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C (L-N)	275 V AC
Maximum continuous operating voltage U_C (L-PE)	360 V AC
Maximum continuous operating voltage U_C (N-PE)	360 V AC
Rated load current I_L	16 A (30 °C)
Protective conductor current I_{PE}	$\leq 5 \mu\text{A}$
Standby power consumption P_C	$\leq 1 \text{ VA}$
Reference test voltage U_{REF}	255 V AC
Combination wave U_{OC}	6 kV
Voltage protection level U_p	$\leq 1.5 \text{ kV}$
TOV behavior at U_T (L-N)	460 V AC (5 s / withstand mode)
	460 V AC (120 min / safe failure mode)
TOV behavior at U_T (L-PE)	460 V AC (5 s / withstand mode)
	460 V AC (120 min / withstand mode)
	1455 V AC (200 ms / safe failure mode)
TOV behavior at U_T (N-PE)	1200 V AC (200 ms / safe failure mode)
Response time t_A (L-N)	$\leq 25 \text{ ns}$
Response time t_A (L-PE)	$\leq 100 \text{ ns}$
Response time t_A (N-PE)	$\leq 100 \text{ ns}$
Max. required back-up fuse	16 A (gG / B / C)
Short-circuit current rating I_{SCCR}	1.5 kA AC

Information technology

Maximum continuous operating voltage U_C	200 V DC
Rated current	150 mA (25 °C)
Operating effective current I_C at U_C	$\leq 150 \mu\text{A}$
Standby power consumption P_C	$\leq 1 \text{ VA}$
Protective conductor current I_{PE}	$\leq 2 \mu\text{A}$
Insulation resistance R_{iso}	$\geq 1 \text{ M}\Omega$
	$\geq 1 \text{ G}\Omega$
Nominal discharge current I_n (8/20) μs (line-line)	1 kA
Nominal discharge current I_n (8/20) μs (line-ground)	2.5 kA
Total discharge current I_{Total} (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs	2.5 kA

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Nominal pulse current I_{an} (10/1000) μ s (line-line)	35 A
Nominal pulse current I_{an} (10/1000) μ s (line-earth)	200 A
Output voltage limitation at 1 kV/ μ s (line-line) spike	≤ 360 V
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 900 V
Output voltage limitation at 1 kV/ μ s (line-line) static	≤ 360 V
Residual voltage at I_n (conductor-conductor)	≤ 500 V
Residual voltage at I_n (conductor-ground)	≤ 30 V
Residual voltage with I_{an} (10/1000) μ s (line-line)	≤ 35 V
Residual voltage with I_{an} (10/1000) μ s (line-earth)	≤ 35 V
Voltage protection level U_p (line-line)	≤ 460 V (C2 - 1 kA)
	≤ 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 Ω system	typ. 4 MHz
Cut-off frequency f_g (3 dB), sym. in 150 Ω system	typ. 3 MHz
Cut-off frequency f_g (3 dB), sym. in 600 Ω system	typ. 700 kHz
Capacity (Core-Core)	typ. 1 nF
Capacity (Core-Earth)	typ. 5 pF
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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Child-proofing)
Ambient temperature (operation)	-25 °C ... 75 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2019
Standards/specifications	EN 61643-21
Note	A2:2013
Standards/specifications	IEC 61643-21
Note	A2:2012

Mounting

Mounting type	Plugging into the mains socket
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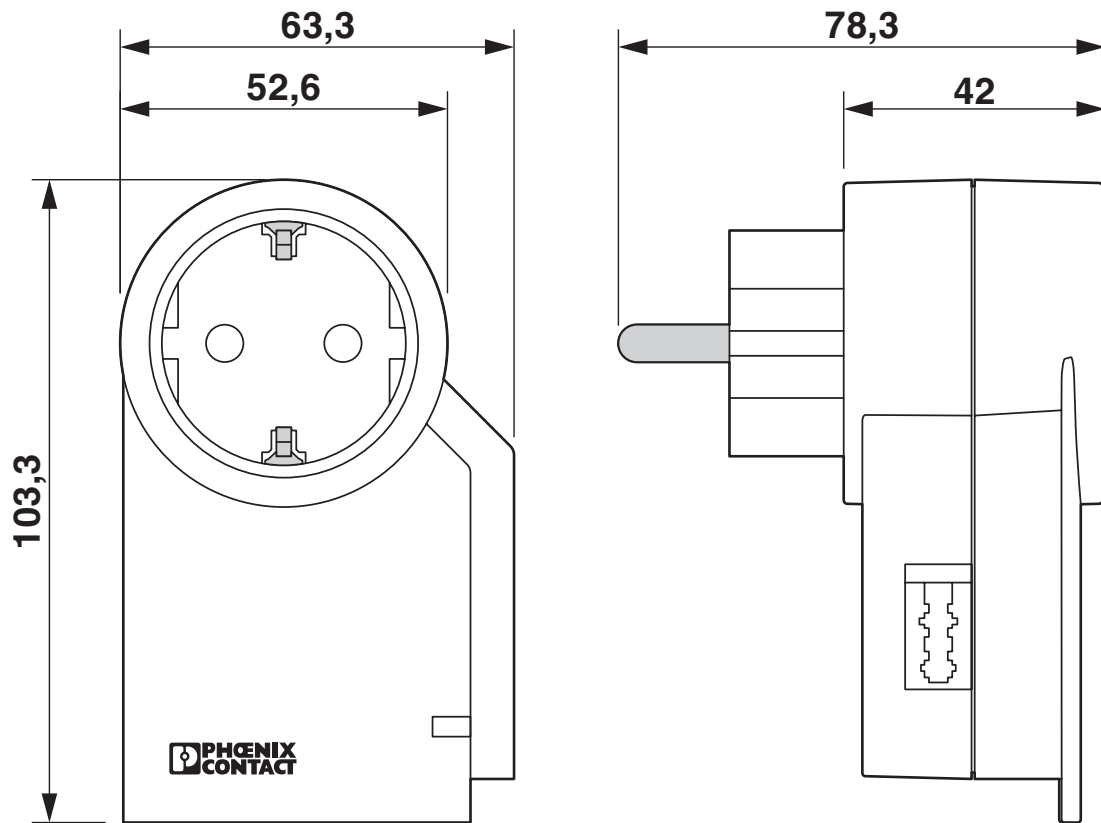


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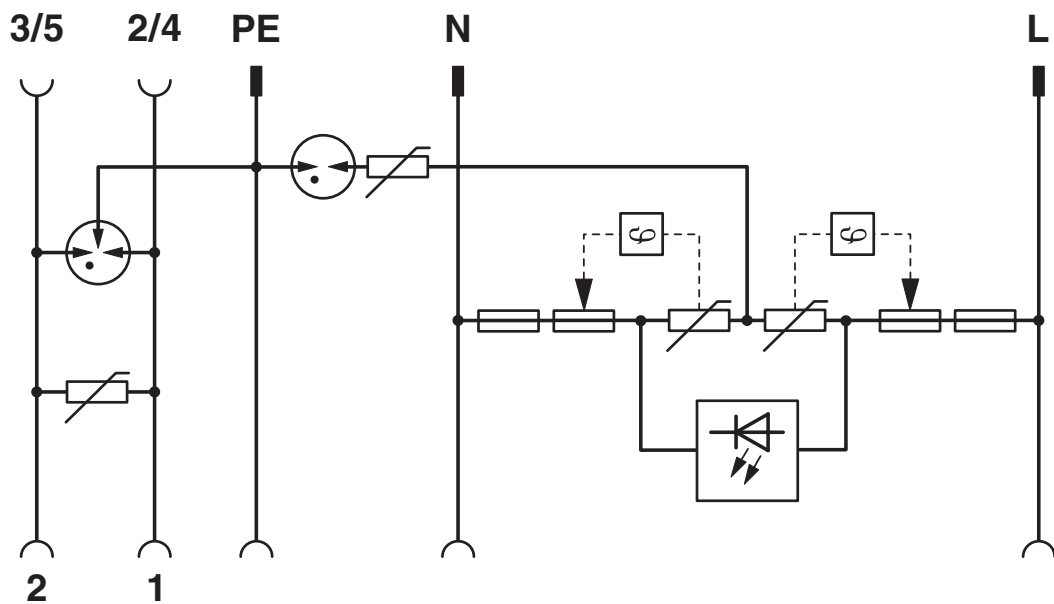
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Drawings

Dimensional drawing



Circuit diagram



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Classifications

ECLASS

ECLASS-13.0

27171602

ETIM

ETIM 9.0

EC001625

UNSPSC

UNSPSC 21.0

39121600

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	db2fcdc9-66bb-4cb7-a0dc-22e146a89b72

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