

# MNT-ISDN D/WH - Type 3 surge protection device



2882349

<https://www.phoenixcontact.com/us/products/2882349>

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Socket attachment plug with surge protection for the power supply unit and ISDN connection for telecommunications terminal equipment. Cable is provided.



## Commercial data

Item number	2882349
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CL1423
GTIN	4046356073424
Weight per piece (including packing)	209.6 g
Weight per piece (excluding packing)	209.6 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
Type	Intermediate plug
For country-specific use in	D, A, NL, E, S, FIN, TR
Surge protection fault message	optical

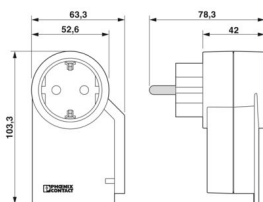
### Insulation characteristics

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

### Connection data

Connection method	RJ45
Connection method	Grounding plug/socket

### Dimensions

Dimensional drawing	
Width	63 mm
Height	103 mm
Depth	78 mm

### Material specifications

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

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Direction of action	L/N-PE & Signal Line-Earth Ground
Nominal voltage $U_N$	230/400 V AC (TN)
	230/400 V AC (TT - only in use with RCD)
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 $I_{PE}$	$\leq 5 \mu A$
Standby power consumption $P_C$	$\leq 1 VA$
Reference test voltage $U_{REF}$	255 V AC
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)	$\leq 1.5 kV$
Residual voltage at $I_{amax}$ , (L-N)	$\leq 1 kV$ (at 1 kA)
	$\leq 1.2 kV$ (at $U_{OC}$ )
Residual voltage at $I_{amax}$ , (L-PE)	$\leq 1 kV$ (at 1 kA)
	$\leq 1.5 kV$ (at $U_{OC}$ )
Residual voltage at $I_{amax}$ , (PE)	$\leq 1 kV$ (at 1 kA)
	$\leq 1.5 kV$ (at $U_{OC}$ )
TOV behavior at $U_T$ (L-N)	335 V AC (5 s / withstand mode)
	440 V AC (120 min / safe failure mode)
TOV behavior at $U_T$ (L-PE)	440 V AC (5 s / withstand mode)
	440 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)	$\leq 25 ns$
Response time $t_A$ (L-PE)	$\leq 100 ns$
Response time $t_A$ (N-PE)	$\leq 100 ns$
Max. required back-up fuse	16 A (gG / B / C)
Short-circuit current rating $I_{SCCR}$	1.5 kA AC
Max. backup fuse with branch wiring	16 A (gG / B / C)

## Information technology

Maximum continuous operating voltage $U_C$	6 V DC
Rated current	1.5 A (25 °C)
Operating effective current $I_C$ at $U_C$	500 $\mu A$
Standby power consumption $P_C$	$\leq 1 VA$
Protective conductor current $I_{PE}$	$\leq 4 \mu A$
Insulation resistance $R_{iso}$	$\geq 20 k\Omega$
	$\leq 1000 M\Omega$
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-line)	650 A

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Nominal discharge current $I_n$ (8/20) $\mu$ s (line-ground)	2.5 kA
Total discharge current $I_{Total}$ (8/20) $\mu$ s	10 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-line)	120 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-earth)	200 A
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike	$\leq$ 900 V
Output voltage limitation at 1 kV/ $\mu$ s (line-line) static	$\leq$ 10 V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq$ 900 V
Residual voltage at $I_n$ (conductor-conductor)	$\leq$ 20 V
Residual voltage at $I_n$ (conductor-ground)	$\leq$ 50 V
Voltage protection level $U_p$ (line-line)	$\leq$ 65 V (C1 - 1 kV / 500 A)
Voltage protection level $U_p$ (line-earth)	$\leq$ 900 V (C2 - 4 kV / 2 kA)
Response time $t_A$ (line-line)	$\leq$ 1 ns
Response time $t_A$ (line-earth)	$\leq$ 100 ns
Cut-off frequency $f_g$ (3 dB), sym. in 100 $\Omega$ system	typ. 300 kHz
Capacity (Core-Core)	typ. 6 nF
Capacity (Core-Earth)	typ. 5 pF
Alternating current carrying capacity (line-line)	1 A - 1 s
Alternating current carrying capacity (line-earth)	10 A - 1 s
Pulse reset time (line-line)	$\leq$ 1 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	$\leq$ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012
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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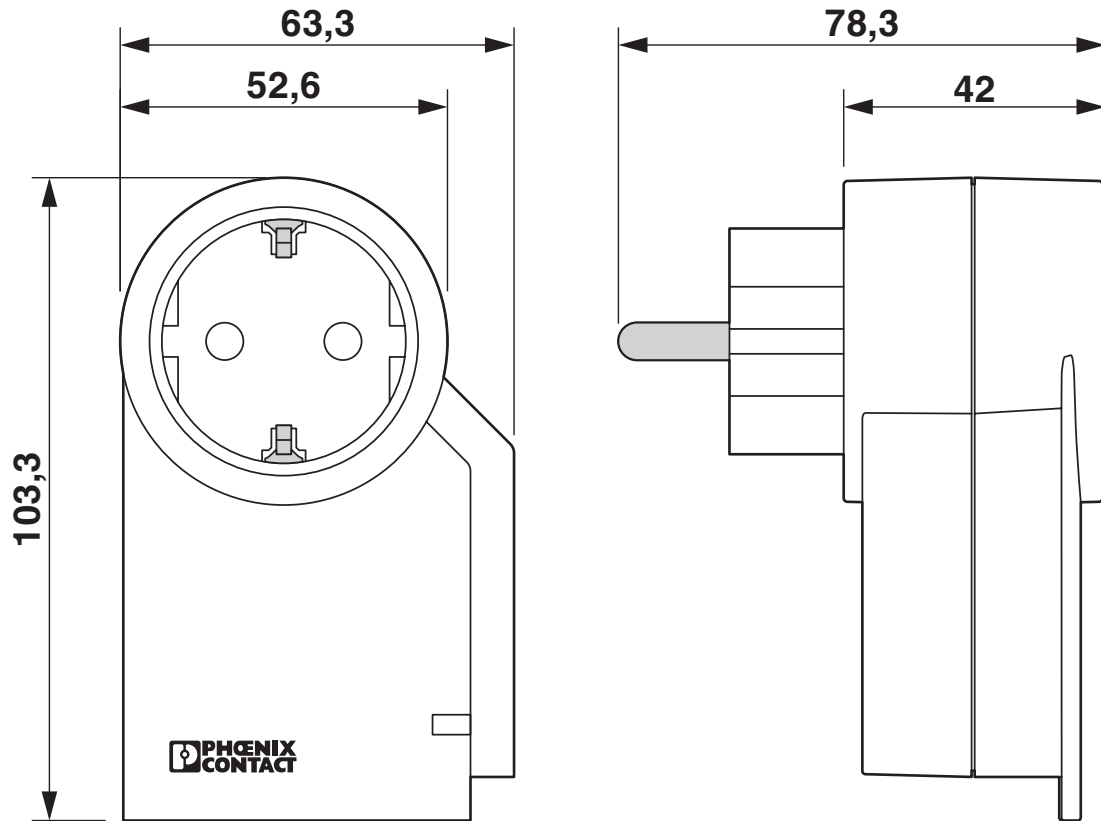


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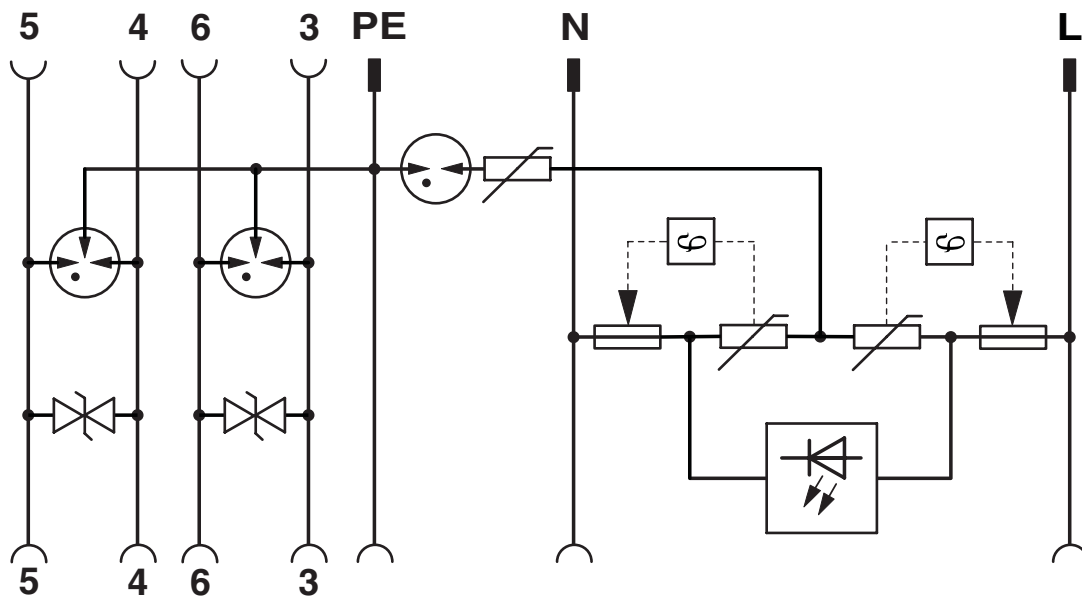
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## Drawings

Dimensional drawing



Circuit diagram



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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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