

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

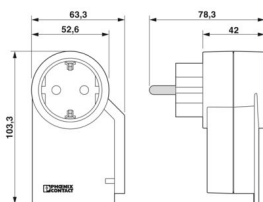
Insulation characteristics

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) μs	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 μA
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) μs (line-line)	650 A

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Nominal discharge current I_n (8/20) μ s (line-ground)	2.5 kA
Total discharge current I_{Total} (8/20) μ s	10 kA
Nominal pulse current I_{an} (10/1000) μ s (line-line)	120 A
Nominal pulse current I_{an} (10/1000) μ s (line-earth)	200 A
Output voltage limitation at 1 kV/ μ s (line-earth) spike	\leq 900 V
Output voltage limitation at 1 kV/ μ s (line-line) static	\leq 10 V
Output voltage limitation at 1 kV/ μ 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 Ω 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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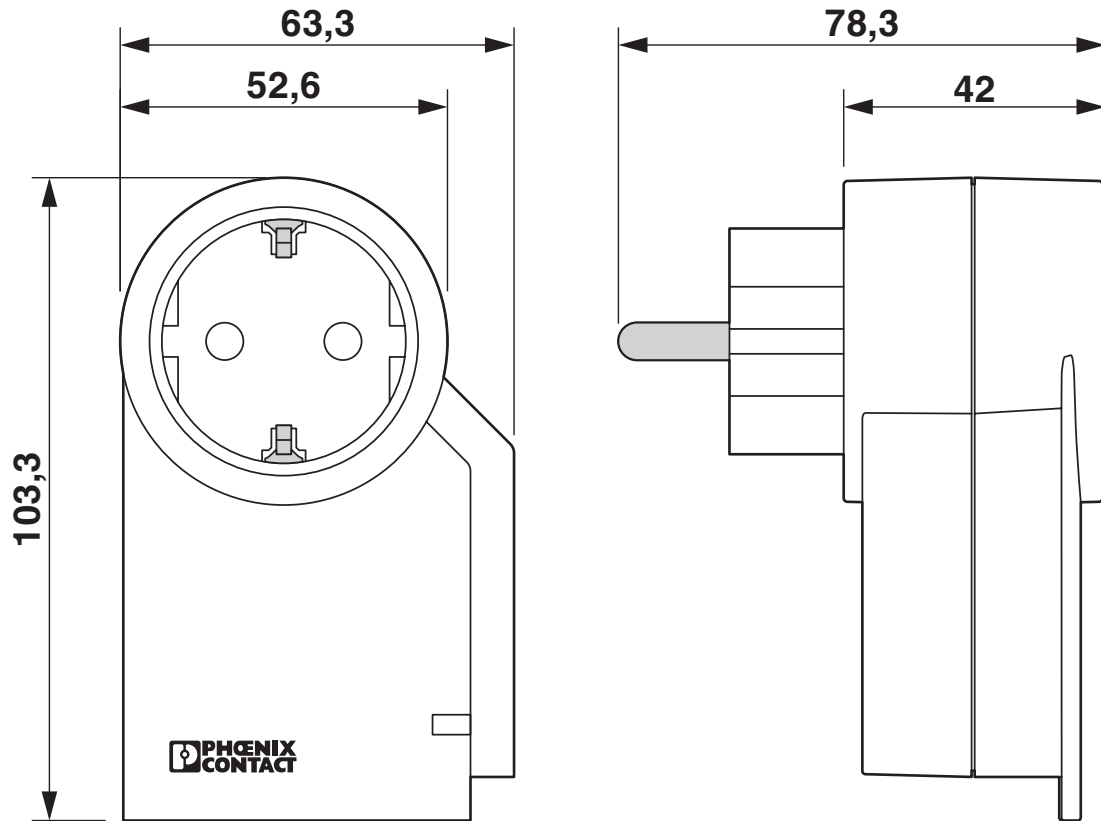


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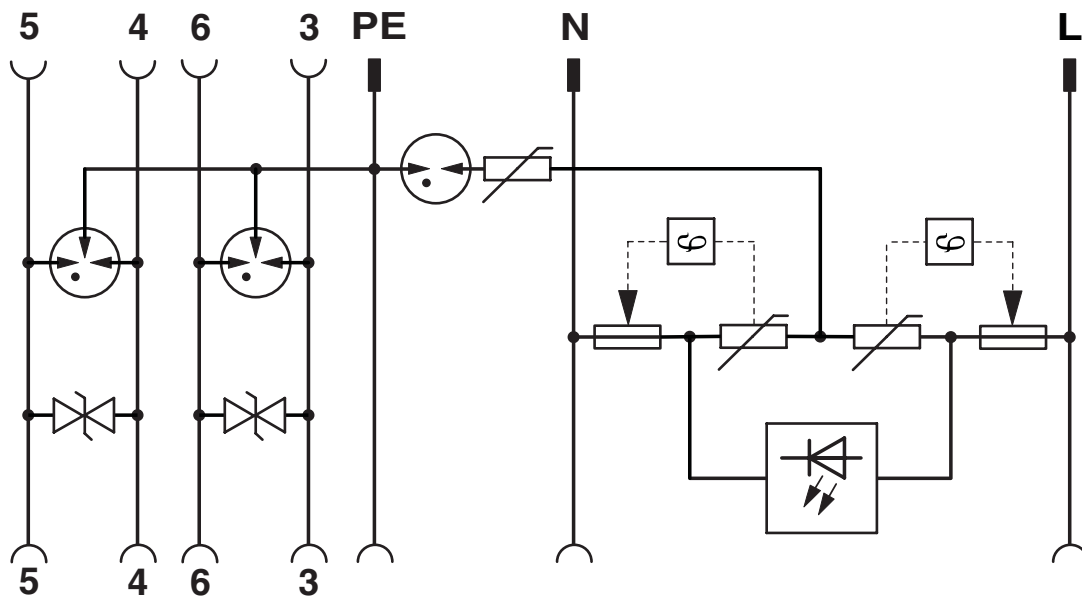
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Drawings

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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