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

2882349

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

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
Catalog page	Page 56 (C-6-2015)
GTIN	4046356073424
Weight per piece (including packing)	209.6 g
Weight per piece (excluding packing)	209.6 g
Country of origin	DE

Technical data

Product properties

Product type	Device protection
Product family	MAINTRAB
IEC test classification	C1
	C2
	C3
	D1
Type	Attachment plug
For country-specific use in	D, A, NL, E, S, FIN, TR
Surge protection fault message	optical

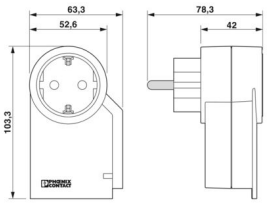
Insulation characteristics

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

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)
Residual current I_{PE}	≤ 5 µA
Standby power consumption P_C	≤ 1.00 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)	≤ 1.2 kV
Voltage protection level U_p (L-PE)	≤ 1.5 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV
Residual voltage at Iamax, (L-N)	≤ 1 kV (at 1 kA)
	≤ 1.2 kV (at U_{OC})
Residual voltage at Iamax, (L-PE)	≤ 1 kV (at 1 kA)
	≤ 1.5 kV (at U_{OC})
Residual voltage at Iamax, (PE)	≤ 1 kV (at 1 kA)
	≤ 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)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Response time t_A (N-PE)	≤ 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 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	≤ 1.00 VA
Residual current I_{PE}	≤ 4 µA
Insulation resistance R_{iso}	≥ 20 kΩ
	≤ 1000 MΩ
Nominal discharge current I_n (8/20) µs (line-line)	650 A

Nominal discharge current I_n (8/20) µs (line-ground)	2.5 kA
Total discharge current I_{total} (8/20) µs	10 kA
Nominal pulse current Ian (10/1000) µs (line-line)	120 A
Nominal pulse current Ian (10/1000) µs (line-earth)	200 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 900 V
Output voltage limitation at 1 kV/µs (line-line) static	≤ 10 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 900 V
Residual voltage at I_n (conductor-conductor)	≤ 20 V
Residual voltage at I_n (conductor-ground)	≤ 50 V
Voltage protection level U_p (line-line)	≤ 65 V (C1 - 1 kV / 500 A)
Voltage protection level U_p (line-earth)	≤ 900 V (C2 - 4 kV / 2 kA)
Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-earth)	≤ 100 ns
Cut-off frequency fg (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)	≤ 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	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

Standards and regulations

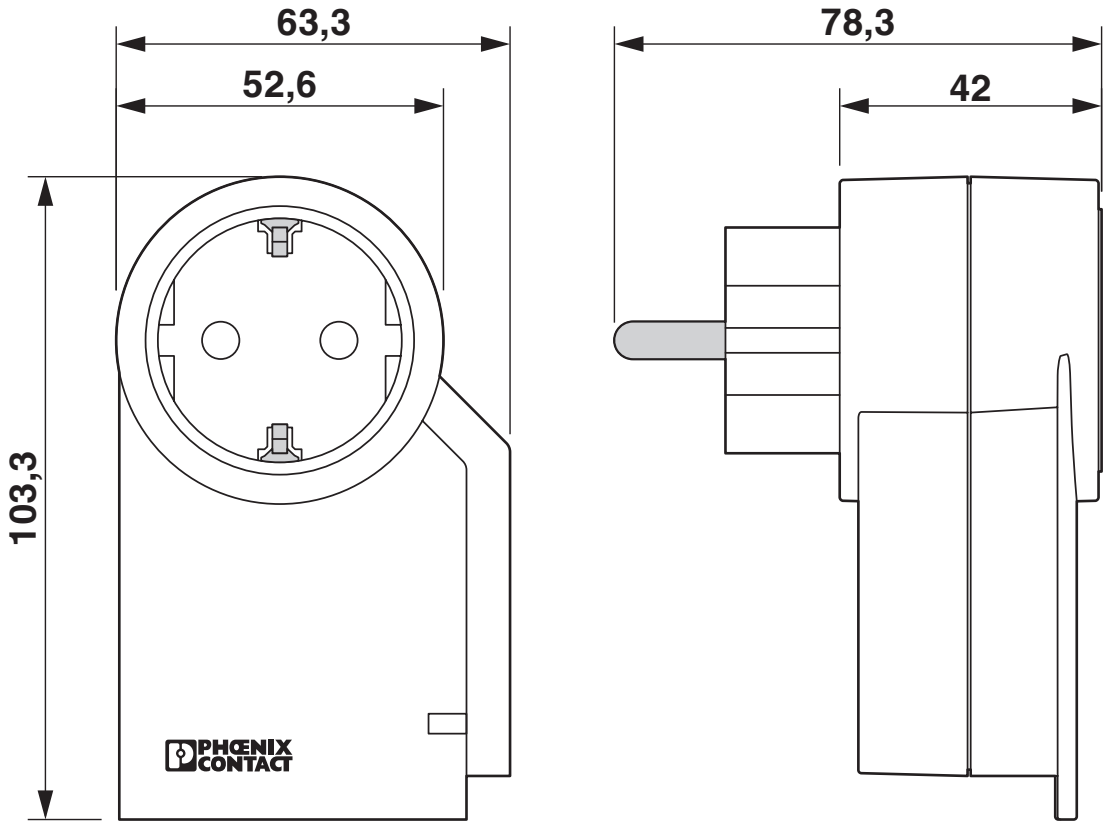
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012
Standards/specifications	EN 61643-21
Note	A2:2013
Standards/specifications	IEC 61643-21
Note	A2:2012

Mounting

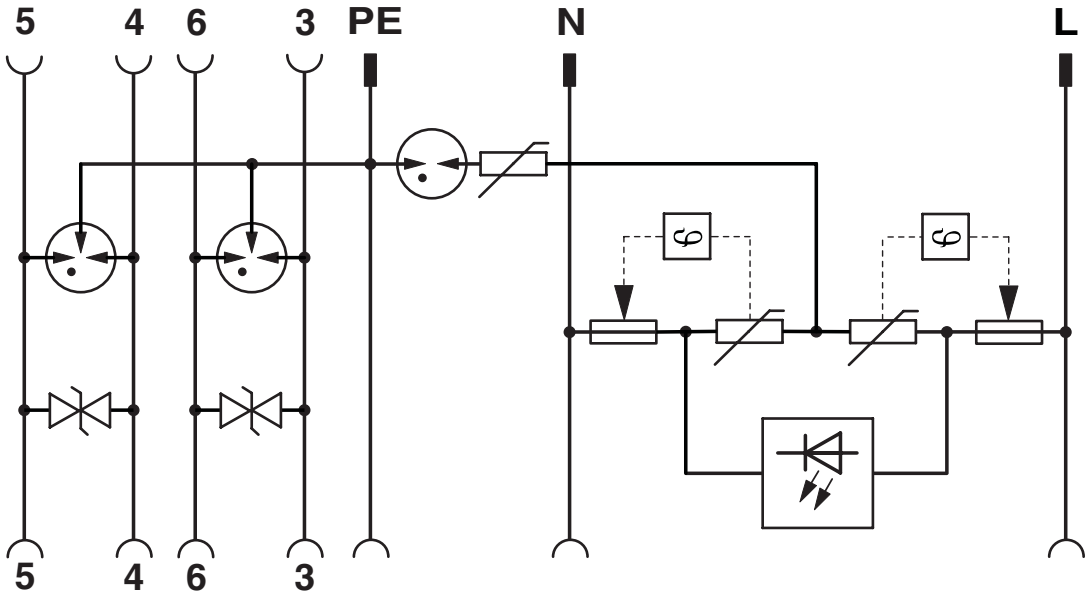
Mounting type	Plugging into the mains socket

Drawings

Dimensional drawing



Circuit diagram



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%

Phoenix Contact 2024 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com