

MNT-TV-SAT D/WH - Type 3 surge protection device



2882297

<https://www.phoenixcontact.com/us/products/2882297>

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Socket attachment plug with surge protection for the power supply unit and signal connection for radio and television equipment (cable, terrestrial antenna, satellite system). Cable is provided.



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
- Ideal addition to the C-SAT surge protective device, direct end device protection

Commercial data

Item number	2882297
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CL1424
GTIN	4046356073509
Weight per piece (including packing)	313.8 g
Weight per piece (excluding packing)	309.35 g
Country of origin	DE

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Technical data

Notes

General

Note	Shielding requirements according to DIN EN 50083-2, Class A
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Product properties

Product type	Device protection
Product family	MAINTRAB
IEC test classification	C2
	C3
	D1
IEC power supply system	TN
	TT
Type	Intermediate plug
Number of positions	2
For country-specific use in	D, A, NL, E, S, FIN, TR
Surge protection fault message	optical

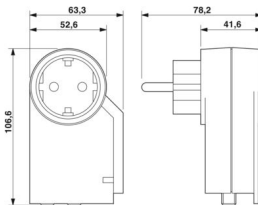
Insulation characteristics

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

Connection data

Connection method	F connector
Connection method	Grounding plug/socket

Dimensions

Dimensional drawing	
Width	63 mm
Height	107 mm
Depth	78 mm

Material specifications

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Color	white (RAL 9010)
	black (RAL 9005)
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-Shield-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}	$\leq 5 \mu A$
Standby power consumption P_C	$\leq 1 VA$
Reference test voltage U_{REF}	255 V AC
Combination wave U_{OC}	6 kV
Voltage protection level U_p	$\leq 1.5 kV$
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)	$\leq 25 ns$
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

Information technology

Maximum continuous operating voltage U_C	24 V DC
Rated current	1.5 A (25 °C)
Operating effective current I_C at U_C	$\leq 1 \mu A$
Standby power consumption P_C	$\leq 1 VA$
Protective conductor current I_{PE}	$\leq 1 \mu A$
Insulation resistance R_{iso}	$\geq 70 M\Omega$
	$\geq 70 M\Omega$
Nominal discharge current I_n (8/20) μs (line-ground)	2.5 kA
Nominal discharge current I_n (8/20) μs (line-shield)	2.5 kA

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Nominal discharge current I_n (8/20) μ s (shield-ground)	5 kA
Total discharge current I_{Total} (8/20) μ s	5 kA
Nominal pulse current I_{an} (10/1000) μ s (line-shield)	120 A
Nominal pulse current I_{an} (10/1000) μ s (shield-ground)	200 A
Output voltage limitation at 1 kV/ μ s (line-shield) spike	≤ 700 V
Output voltage limitation at 1 kV/ μ s (shield-ground) spike	≤ 1 kV
Output voltage limitation at 1 kV/ μ s (line-shield) static	≤ 700 V
Output voltage limitation at 1 kV/ μ s (shield-ground) static	≤ 1 kV
Residual voltage at I_n (conductor-shield)	≤ 40 V
Residual voltage at I_n (shield-ground)	≤ 50 V
Voltage protection level U_p (line-shield)	≤ 700 V (C2 - 2 kA)
Voltage protection level U_p (shield-ground)	≤ 1.2 kV (C2 - 5 kA)
Response time t_A (line-shield)	≤ 100 ns
Response time t_A (shield-ground)	≤ 100 ns
Input attenuation aE, asym.	typ. 0.3 dB (≤ 2.4 GHz / 75 Ω)
Cut-off frequency f_g (3 dB), asym. (shield) in 75 Ω system	typ. 2.5 GHz
Frequency range	0 Hz ... 2400 MHz
Capacity asymmetrical (shield)	typ. 10 pF
Alternating current carrying capacity (line-shield)	5 A - 1 s
Alternating current carrying capacity (shield-ground)	10 A - 1 s
Pulse reset time (line-shield)	≤ 4 s

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
Standards/specifications	EN 50083
Note	CLASS-A

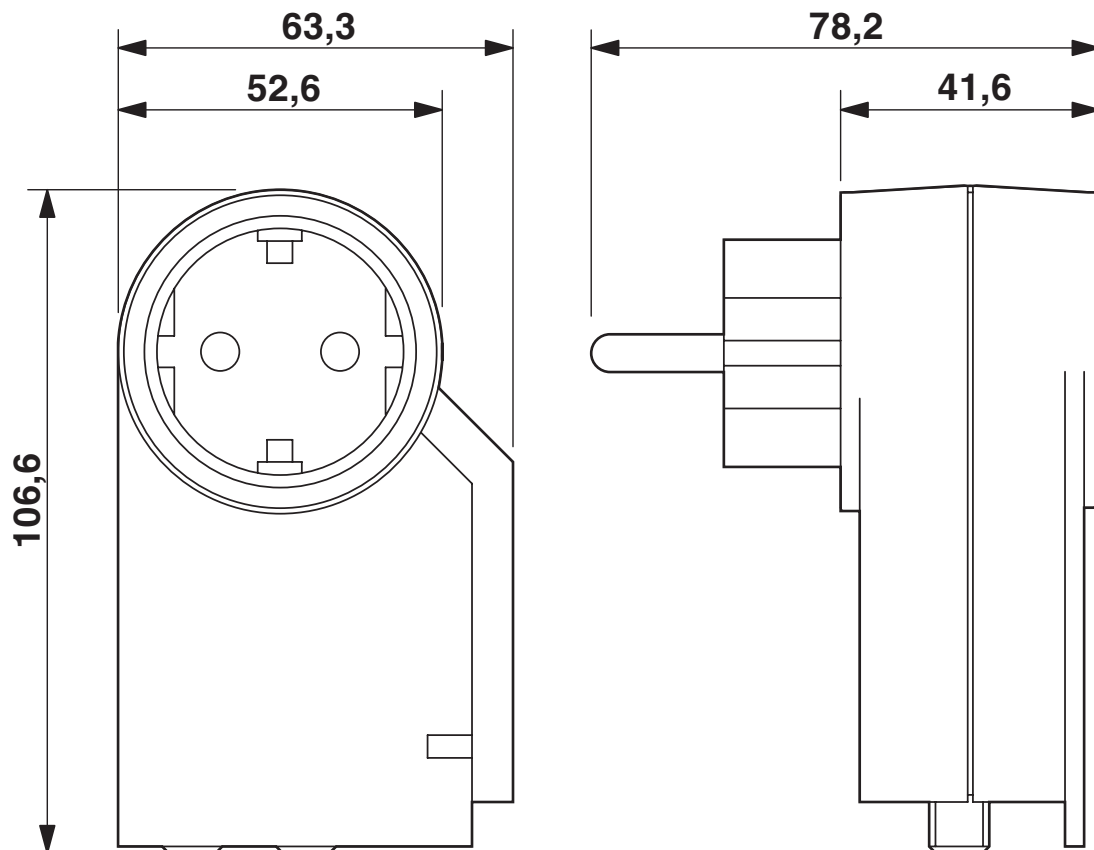
Mounting

Mounting type	Plugging into the mains socket
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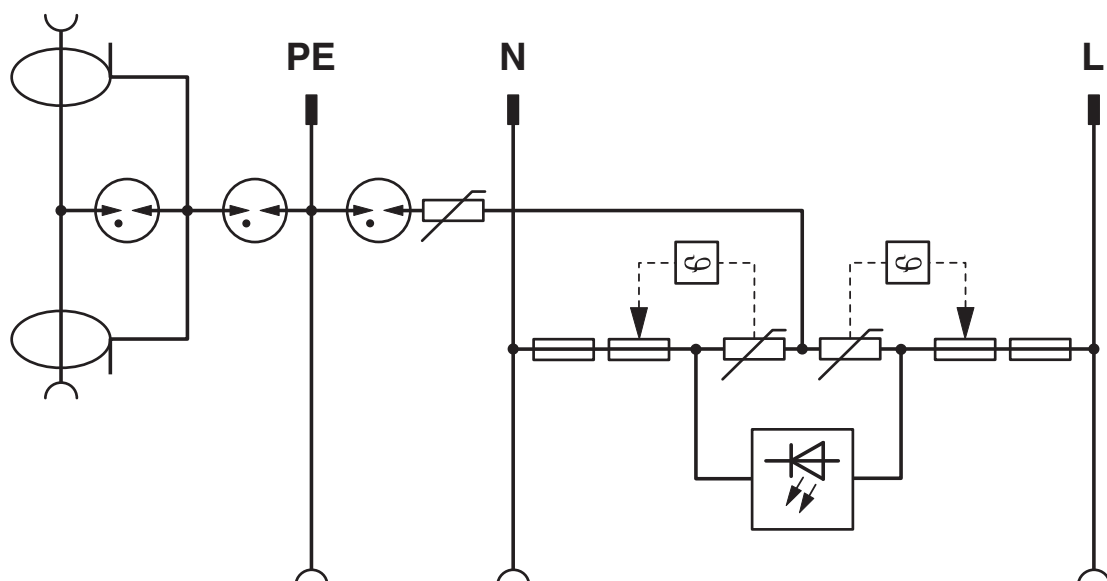
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Drawings

Dimensional drawing



Circuit diagram



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Classifications

ECLASS

ECLASS-13.0	27171603
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ETIM

ETIM 9.0	EC001625
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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	eade5425-4a7d-4ebd-b61e-fe8d28a4f547

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