Type 3 surge protection device - MNT-TV-SAT D/WH - 2882297

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.

Product Features

- Easy operation
- On/off button in the socket strip
- Thermal monitoring of the protective circuit
- For termination devices
- Connection to antenna junction box using separate cable
- Green LED - operating indicator for the power supply

Key commercial data

package_quantity	1
GTIN	4046356073509

Technical data

Dimensions

Height	79 mm
Width	63 mm
Depth	106.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
Degree of protection	IP20 (child-proof)

General

Housing material	PA
Inflammability class according to UL 94	V0/HB
Standards for air and creepage distances	EN 60664-1
Standards for air and creepage distances	EN 61643-11
Standards for air and creepage distances	EN 61643-1
Total surge current (8/20) µs	5 kA
Color	white

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Technical data

General

For country-specific use in	D, A, NL
Mounting type	Plugging into the mains socket
Design	Attachment plug
Direction of action	L/N-PE & Signal Line-Shield-Earth Ground

Protective circuit, power supply

IEC test classification	III
IEC test classification	T3
EN type	T3
Nominal voltage U_N	230 V AC
Arrester rated voltage U_C	275 V AC (L-N)
Arrester rated voltage U_C (L-N)	275 V AC
Arrester rated voltage U_C (L-PE)	360 V AC
Arrester rated voltage U_C (N-PE)	360 V AC (L/N-PE)
Nominal frequency f_N	50 Hz
Nominal frequency f_N	60 Hz
Nominal current I_N	16 A (30 °C)
Residual current I_{PE}	≤ 1 µA
Nominal discharge current I_n (8/20) µs	3 kA
Nominal discharge current I_n (8/20) µs (L-N)	3 kA
Nominal discharge current I_n (8/20) µs (L-PE)	3 kA
Max. discharge current I_{max} (8/20) µs	8 kA (> 100x 1 kA)
Combined surge U_{OC}	4 kV
Energy absorption symmetrical	140 J (L-N)
Enery absorption, asymmetrical	220 J (L(N)-PE)
Voltage protection level U_P (L-N)	≤ 1.2 kV
Voltage protection level U_P (L-N)	≤ 1 kV (at 1 kA (8/20 µs))
Voltage protection level U_P (L-PE)	≤ 1.5 kV
Voltage protection level U_P (N-PE)	≤ 1.5 kV
Total surge current (8/20) µs	5 kA
Response time (L-N)	≤ 25 ns (L-N)
Response time (L-PE)	≤ 100 ns
Message: Surge protection fault	Optical
Max. required back-up fuse	16 A (gL/C)

Connection (protective circuit, power supply)

Connection type IN	Grounding plug
Connection type OUT	Grounding socket

Standards (protective circuit, power supply)

Standards/regulations	IEC 61643-1
Standards/regulations	EN 61643-11/A11

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Technical data

Standards (protective circuit, power supply)

Standards/regulations	VDE 0620-1
Standards/regulations	IEC 60884-1

Protective circuit, information technology

Arrester rated voltage U_C	72 V DC
Arrester rated voltage U_C	50 V AC
Arrester rated voltage U_C (Core-Shield)	72 V DC
Arrester rated voltage U_C (Core-Shield)	50 V AC
Arrester rated voltage U_C (Shield-Earth)	380 V DC
Nominal current I_N	1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 µA
Residual current I_{PE}	≤ 1 µA
Insulation resistance R_{iso}	≥ 70 MΩ (core-core)
Insulation resistance R_{iso}	≥ 70 MΩ (shield-PE)
Nominal discharge current I_n (8/20) µs (Core-Shield)	2.5 kA
Nominal discharge current I_n (8/20) µs (Shield-Earth)	5 kA
Voltage protection level U_P (Core-Shield)	≤ 700 V (C2 - 2 kA)
Voltage protection level U_P (Shield-Earth)	≤ 1.2 kV (C2 - 5 kA)
Response time tA (Core-Shield)	≤ 100 ns
Response time tA (Shield-Earth)	≤ 100 ns
Input attenuation aE, asym.	0.3 dB (≤ 2.4 GHz)
Cut-off frequency fg (3 dB), asym. (shield) in 75 Ohm system	> 2.5 GHz
Frequency range	0 Hz ... 2400 MHz
Capacity asymmetrical (shield)	typ. 10 pF
Nominal pulse current ian (10/1000) µs, asym. (shield)	120 A
Residual voltage at In, (conductor-shield)	≤ 40 V
Residual voltage at In, (shield-ground)	≤ 50 V
Surge carrying capacity in acc. with IEC 61643-21 (Core-Shield)	C2 (4 kV / 2 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Shield)	C3 (7.5 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Shield-Earth)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Shield-Earth)	C3 (7.5 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Shield-Earth)	D1 (1 kA)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Shield)	5 A - 1 s
Alternating current carrying capacity in acc. with IEC 61643-21 (Shield-Earth)	10 A - 1 s
Pulse reset time tr in acc. with IEC 61643-21 (Core-Shield)	Cannot be measured
Overload fault mode in acc. with IEC 61643-21 (Core-Core)	Mode 3

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Technical data

Power supply, general

Connection method	F connector
Connection type IN	F connector, female
Connection type OUT	F connector, female

Connection, equipotential bonding, information technology

Connection method	Via protective contact plug

Standards (protective circuit, information technology)

IEC test classification	C2
IEC test classification	C3
IEC test classification	D1
Standards/regulations	IEC 61643-21
Standards/regulations	EN 50083 - CLASS A

classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130810
eCl@ss 7.0	27130810
eCl@ss 8.0	27130810

ETIM

ETIM 2.0	EC001473
ETIM 3.0	EC001473
ETIM 4.0	EC001473
ETIM 5.0	EC001473

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

approvals

VDE Zeichengenehmigung / GOST /

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approvals

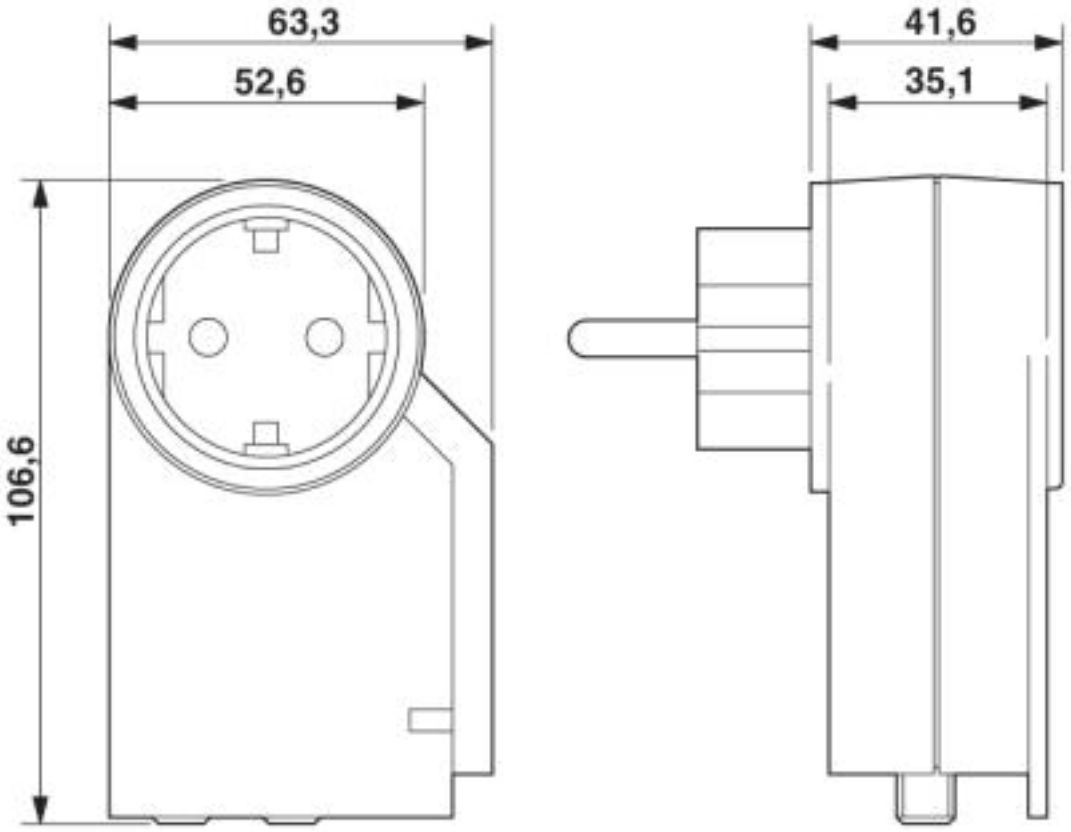
Approval details

VDE Zeichengenehmigung

GOST

Drawings

Dimensioned drawing



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Circuit diagram