

Type 3 surge protection device - MNT-1 D - 2882200

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Attachment plug with surge protection for mains sockets, optical power and error display. For country-specific use in: D, A, I, NL, S, E, N, FIN



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 073554
GTIN	4046356073554

Technical data

Dimensions

Height	76 mm
Width	56 mm
Depth	78 mm

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 (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

General

EN type	T3
Number of ports	One
Mode of protection	L-N
	L-PE
	N-PE
Mounting type	Plugging into the mains socket

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Technical data

General

Color	jet black RAL 9005
Housing material	PA 6
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	Attachment plug
Surge protection fault message	optical
For country-specific use in	D, A, NL, E, S, FIN, TR

Protective circuit

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}	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs	3 kA (> 5x)
Standby power consumption P_C	$\leq 1 VA$
Reference test voltage U_{REF}	255 V AC
Combination wave U_{OC}	4 kV
Energy absorption symmetrical	140 J (L-N (L))
Energy absorption, asymmetrical	220 J (L(N)-PE)
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)	$\leq 1.5 kV$
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)

Connection data

Connection method	Grounding plug/socket
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Technical data

Standards and Regulations

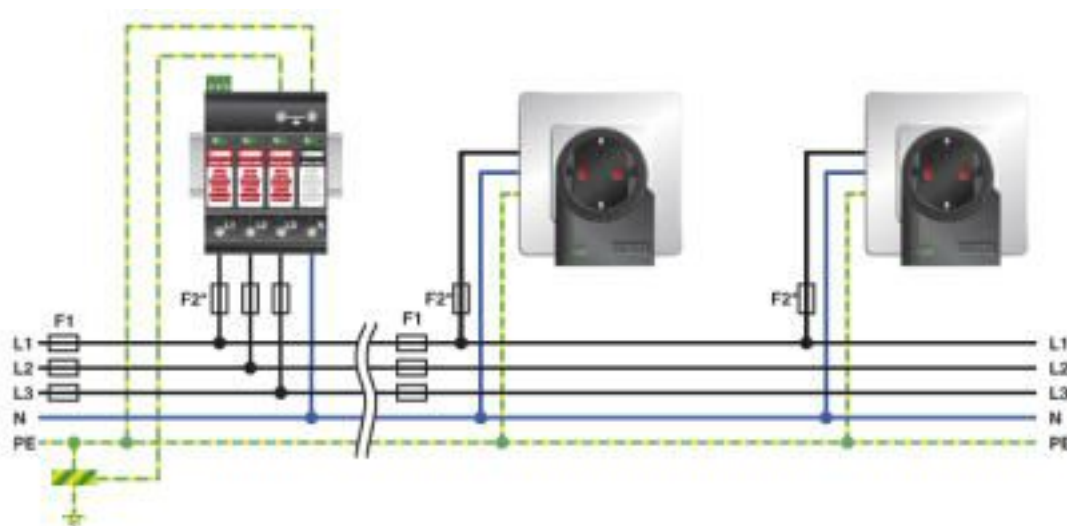
Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

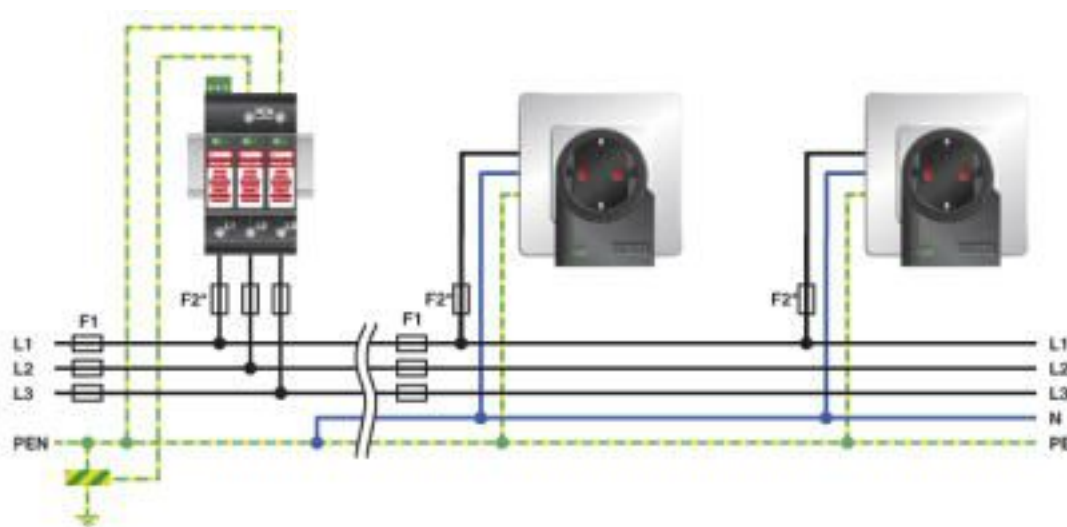
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Application drawing

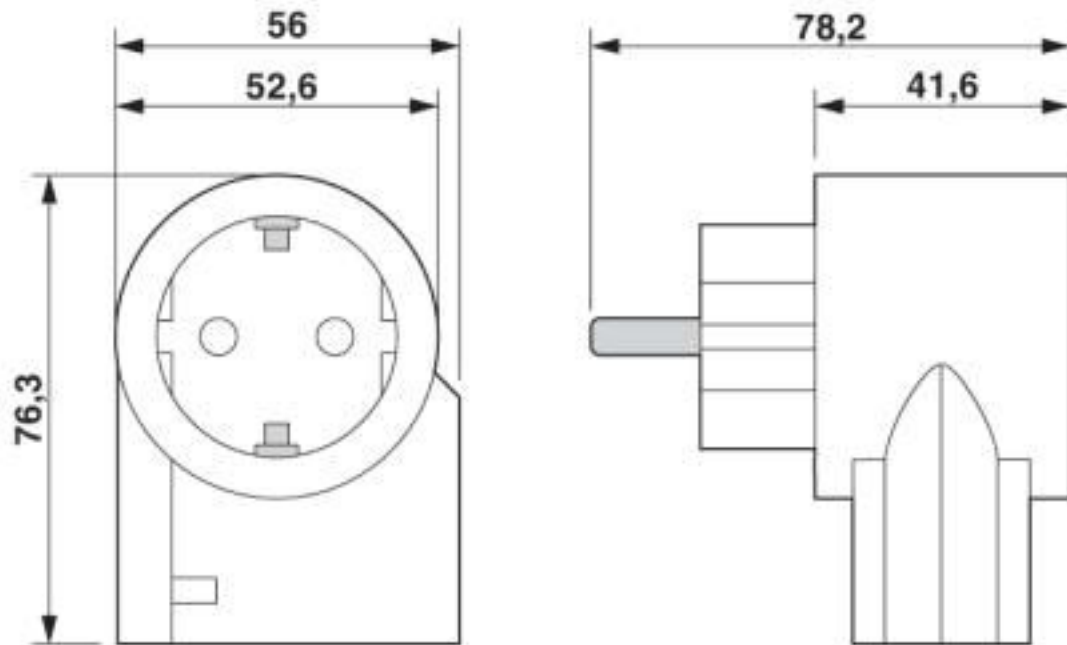


Application drawing

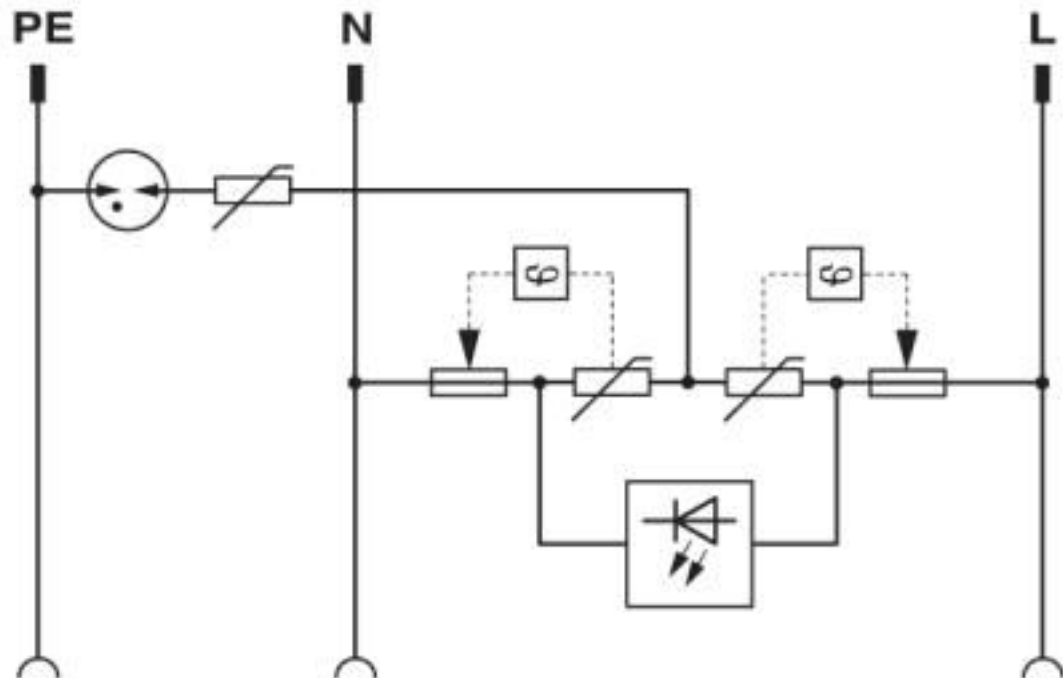


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Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1

27130806

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Classifications

eCl@ss

eCl@ss 11.0	27130806
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130806
eCl@ss 8.0	27130806
eCl@ss 9.0	27130806

ETIM

ETIM 2.0	EC000942
ETIM 3.0	EC000942
ETIM 4.0	EC000942
ETIM 5.0	EC000942
ETIM 6.0	EC000942
ETIM 7.0	EC000942

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

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Approvals

EAC		EAC-Zulassung
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EAC		RU C- DE.*09.B.00169
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