

Type 3 surge protection device - MNT-1 D/WH - 2882213


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



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 073547
GTIN	4046356073547
Weight per Piece (excluding packing)	69.350 g
Weight per piece (including packing)	121.000 g
Custom tariff number	85363010
Country of origin	Germany

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

IEC test classification	III
	T3
EN type	T3

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Technical data

General

Number of ports	One
Mode of protection	L-N
	L-PE
	N-PE
Mounting type	Plugging into the mains socket
Color	pure white RAL 9010
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}	$\leq 5 \mu\text{A}$
Nominal discharge current I_n (8/20) μs	3 kA (> 5x)
Standby power consumption P_C	$\leq 1 \text{ VA}$
Reference test voltage U_{REF}	255 V AC
Combination wave U_{OC}	4 kV
Voltage protection level U_p (L-N)	$\leq 1.2 \text{ kV}$
Voltage protection level U_p (L-PE)	$\leq 1.5 \text{ kV}$
Voltage protection level U_p (N-PE)	$\leq 1.5 \text{ kV}$
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)	$\leq 25 \text{ ns}$
Response time t_A (L-PE)	$\leq 100 \text{ ns}$
Response time t_A (N-PE)	$\leq 100 \text{ ns}$
Max. required back-up fuse	16 A (gG / B / C)
Short-circuit current rating I_{SCCR}	1.5 kA AC

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Technical data

Protective circuit

Max. backup fuse with branch wiring	16 A (gG / B / C)
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Connection data

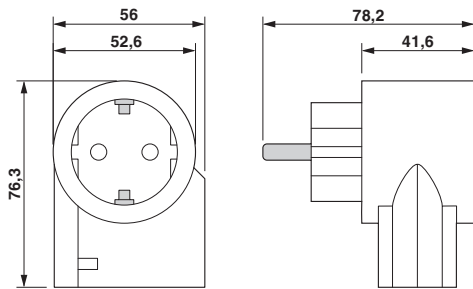
Connection method	Grounding plug/socket
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Standards and Regulations

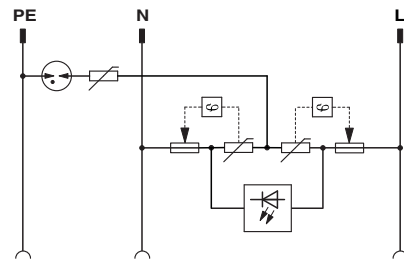
Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012

Drawings

Dimensional drawing

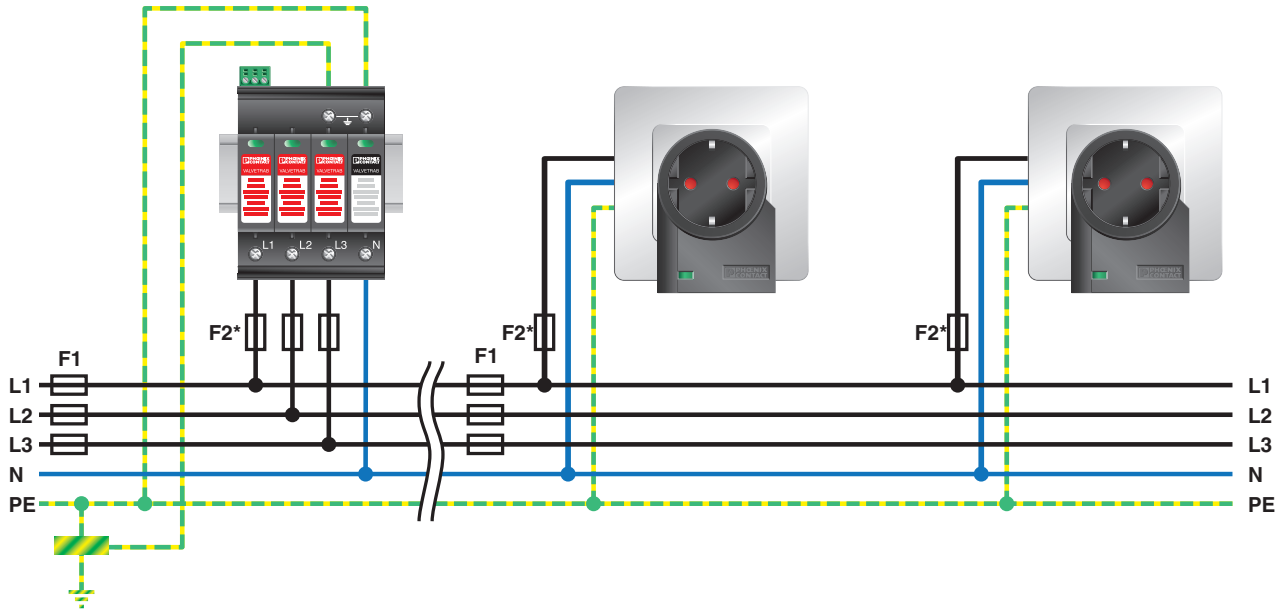


Circuit diagram



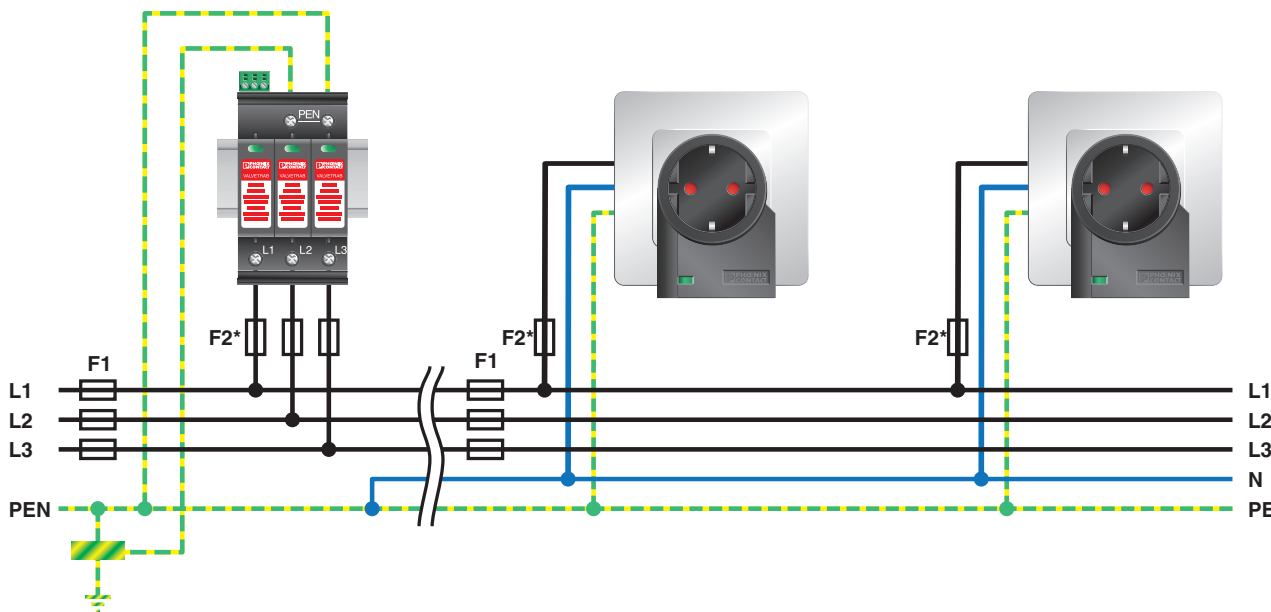
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Application drawing



Type 3 surge protection device - MNT-1 D/WH - 2882213

Application drawing



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	27130806
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

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Classifications

UNSPSC

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

Approvals


Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		RU C- DE.A*30.B01561
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