

MNT-TELE S/WH - Type 3 surge protection device



2880901

<https://www.phoenixcontact.com/us/products/2880901>

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Socket attachment plug with surge protection for the power supply and signal connection of an end device with analog or digital telecommunications interface (VDSL up to 50 Mbps, on short paths (< 300 m) up to 80 Mbps). Cable is included.



Commercial data

Item number	2880901
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CL1423
GTIN	4046356013116
Weight per piece (including packing)	196.5 g
Weight per piece (excluding packing)	196.5 g
Country of origin	DE

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Technical data

Product properties

Product type	Device protection
Product family	MAINTRAB
IEC test classification	C1
	C2
	C3
	D1
Type	Intermediate plug
For country-specific use in	NL, E, I, S, FIN, TR
Surge protection fault message	optical
Wire pairs per module	1

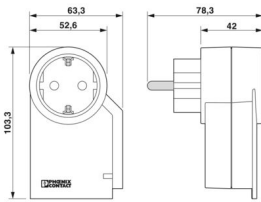
Insulation characteristics

Overvoltage category	III
Pollution degree	2
EN type	T3
Number of ports	One

Connection data

Connection method	RJ12
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

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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)
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
Nominal discharge current I_n (8/20) μs	3 kA (> 5x)
Combination wave U_{OC}	4 kV
Energy absorption symmetrical	140 J (L-N)
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)	$\leq 1.5 kV$
Residual voltage at I_{amax} , (L-N)	$\leq 1 kV$ (at 1 kA)
	$\leq 1.2 kV$ (at U_{OC})
Residual voltage at I_{amax} , (L-PE)	$\leq 1 kV$ (at 1 kA)
	$\leq 1.5 kV$ (at U_{OC})
Residual voltage at I_{amax} , (PE)	$\leq 1 kV$ (at 1 kA)
	$\leq 1.5 kV$ (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)	$\leq 25 ns$
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)

Information technology

Maximum continuous operating voltage U_C	200 V DC
Rated current	150 mA (25 °C)
Operating effective current I_C at U_C	$\leq 150 \mu A$
Standby power consumption P_C	$\leq 1 VA$
Protective conductor current I_{PE}	$\leq 2 \mu A$

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Insulation resistance R_{iso}	$\geq 1 \text{ M}\Omega$
	$\geq 1 \text{ G}\Omega$
Nominal discharge current I_n (8/20) μs (line-line)	1 kA
Nominal discharge current I_n (8/20) μs (line-ground)	2.5 kA
Total discharge current I_{Total} (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs	2.5 kA
Nominal pulse current I_{an} (10/1000) μs (line-line)	35 A
Nominal pulse current I_{an} (10/1000) μs (line-earth)	200 A
Output voltage limitation at 1 kV/ μs (line-line) spike	$\leq 360 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 900 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 360 \text{ V}$
Residual voltage at I_n (conductor-conductor)	$\leq 500 \text{ V}$
Residual voltage at I_n (conductor-ground)	$\leq 30 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (line-line)	$\leq 35 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (line-earth)	$\leq 35 \text{ V}$
Voltage protection level U_p (line-line)	$\leq 460 \text{ V}$ (C2 - 1 kA)
	$\leq 350 \text{ V}$ (C3 - 25 A)
Voltage protection level U_p (line-earth)	$\leq 900 \text{ V}$ (C2 - 2 kA)
	$\leq 900 \text{ V}$ (C3 - 100 A)
Response time t_A (line-line)	$\leq 25 \text{ ns}$
Response time t_A (line-earth)	$\leq 100 \text{ ns}$
Cut-off frequency f_g (3 dB), sym. in 100 Ω system	typ. 4 MHz
Cut-off frequency f_g (3 dB), sym. in 150 Ω system	typ. 3 MHz
Cut-off frequency f_g (3 dB), sym. in 600 Ω system	typ. 700 kHz
Capacity (Core-Core)	typ. 1 nF
Capacity (Core-Earth)	typ. 5 pF
Alternating current carrying capacity (line-line)	250 mA - 1 s
Alternating current carrying capacity (line-earth)	10 A - 1 s
Pulse reset time (line-line)	$\leq 15 \text{ ms}$

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	$\leq 2000 \text{ m}$ (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

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

Mounting

Mounting type	Plugging into the mains socket
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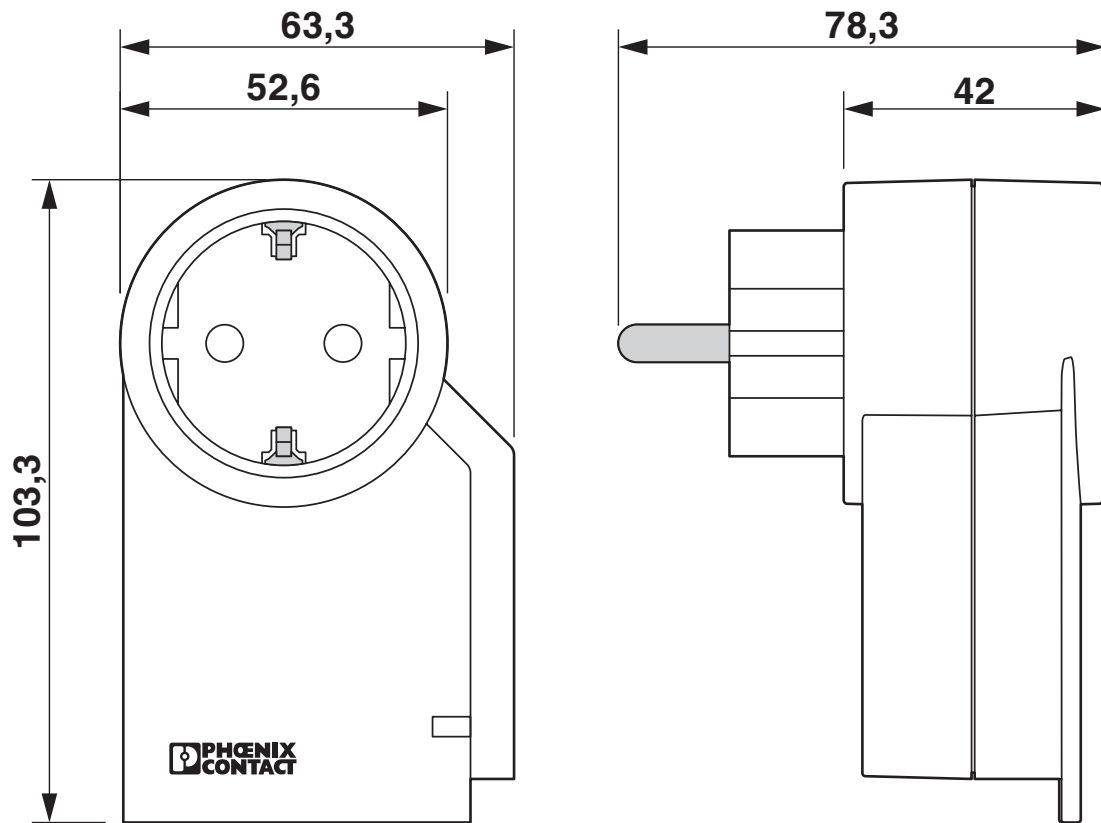


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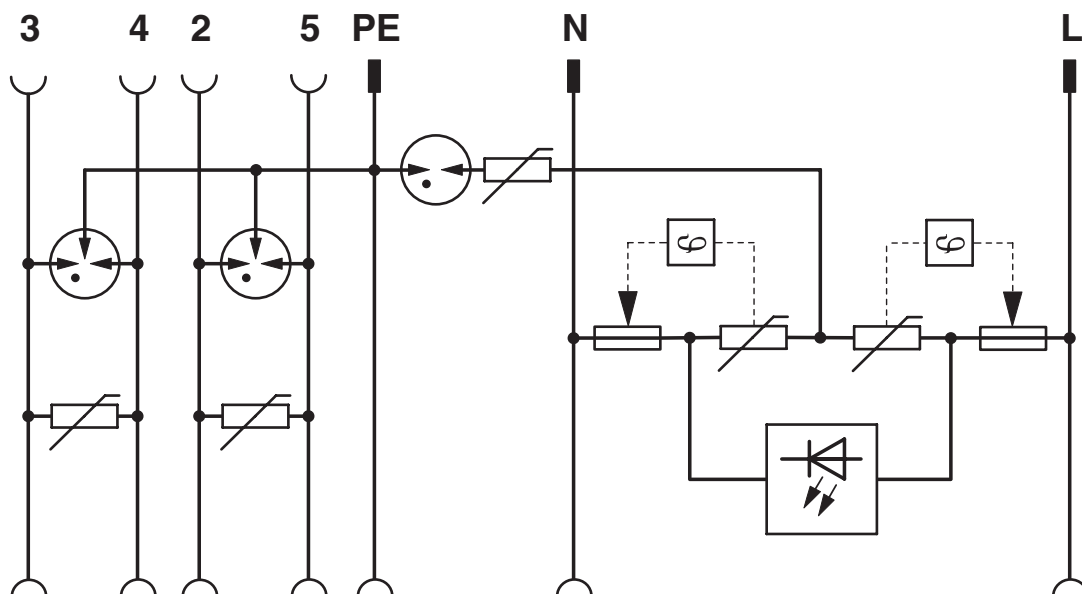
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Drawings

Dimensional drawing



Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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