

Surge protection device - PT 2-TELE - 2882828

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Surge protective device, consisting of plug and base element, for protecting a double wire from analog and digital telecommunications interfaces (VDSL up to 50 Mbps).

Product Description

Surge protection plug for DIN rail mounting, 2-section pluggable, normal mode voltage coarse and fine protection for 2-conductor analog telecommunication interface as well as common mode voltage coarse protection to ground.

Product Features

- For ISDN Uk0 and DSL applications
- For analog telecommunications
- Two-piece, plug-in
- Broadband protection for telecommunications lines
- Worldwide use
- High discharge capacity
- Plugs can be checked with CHECKMASTER



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	68.52 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	90 mm
Width	17.7 mm
Depth	65.5 mm

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Technical data

Dimensions

Horizontal pitch	1 Div.
Complete module height	90 mm
Complete module width	17.7 mm
Complete module depth	65.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Nominal voltage U_N	185 V DC
	130 V AC
Maximum continuous voltage U_C	185 V DC
	130 V AC
Nominal current I_N	450 mA (45°C)
Operating effective current I_C at U_C	$\leq 10 \mu A$
Residual current I_{PE}	$\leq 10 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Core)	10 kA
Nominal discharge current I_n (8/20) μs (Core-Earth)	10 kA

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Protective circuit

Pulse discharge current I_{imp} (10/350) μ s (core-core)	1 kA
Pulse discharge current I_{imp} (10/350) μ s (core-ground)	1 kA
Total surge current (8/20) μ s	18 kA
Max. discharge current I_{max} (8/20) μ s maximum (Core-Earth)	18 kA
Nominal pulse current I_{an} (10/700) μ s (Core-Core)	100 A
Nominal pulse current I_{an} (10/700) μ s (Core-Earth)	100 A
Impulse discharge current (10/350) μ s, peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/ μ s (Core-Core) spike	≤ 300 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 300 V
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 300 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 300 V
Residual voltage at I_n (conductor-conductor)	≤ 160 V (C2 - 10 kV / 5 kA)
Residual voltage at I_n (conductor-ground)	≤ 200 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (core-core)	≤ 250 V (B2 - 1 kV/25 A)
	≤ 300 V (B2 - 4 kV/100 A)
	≤ 270 V (C1 - 1 kV/500 A)
	≤ 300 V (C2 - 2 kV/1 kA)
	≤ 320 V (C2 - 4 kV/2 kA)
	≤ 330 V (C2 - 10 kV/5 kA)
Voltage protection level U_p (core-ground)	≤ 250 V (B2 - 1 kV/25 A)
	≤ 300 V (B2 - 4 kV/100 A)
	≤ 270 V (C1 - 1 kV/500 A)
	≤ 300 V (C2 - 2 kV/1 kA)
	≤ 320 V (C2 - 4 kV/2 kA)
	≤ 330 V (C2 - 10 kV/5 kA)
Response time t_A (Core-Core)	≤ 500 ns
Response time t_A (Core-Earth)	≤ 500 ns
Input attenuation a_E , sym.	typ. 0.4 dB (≤ 5 MHz / 100 Ω)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	typ. 20 MHz
Capacity (Core-Core)	typ. 30 pF ($f=1$ MHz / $V_R=0$ V)
Capacity (Core-Earth)	typ. 30 pF ($f=1$ MHz / $V_R=0$ V)
Resistance in series	2.2 $\Omega \pm 10\%$
Impulse durability (conductor-conductor)	B2 - 4 kV/100 A
	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 25 A
	D1 - 1 kA

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Protective circuit

Impulse durability (conductor-ground)	B2 - 4 kV/100 A
	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 25 A
	D1 - 1 kA

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

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	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943



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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 / EAC / UL Listed / cUL Listed

Ex Approvals

Approvals submitted

Approval details

EAC

EAC

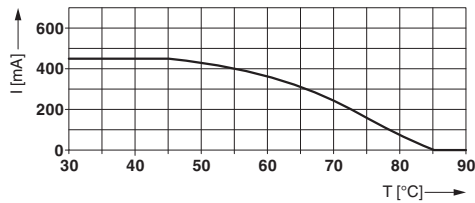
UL Listed

cUL Listed

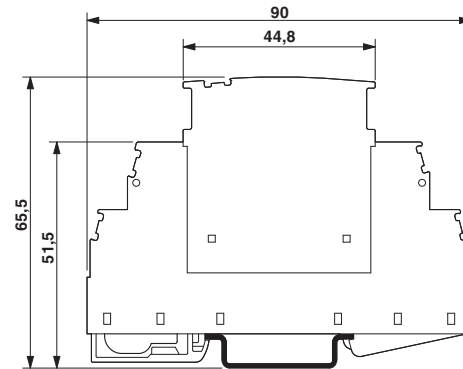
Drawings

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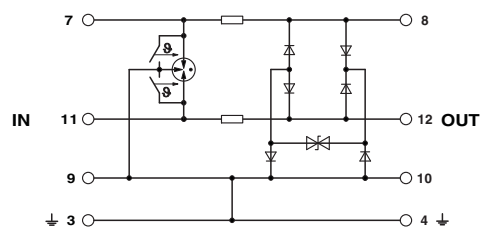
Diagram



Dimensional drawing



Circuit diagram



Application drawing

