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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.

Why buy this product

- 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	10 STK
GTIN	 4 046356 115148

Technical data

Dimensions

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

Surge protection device - PT 2-TELE - 2882828

Technical data

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
Pulse discharge current I_{imp} (10/350) μs (core-core)	1 kA
Pulse discharge current I_{imp} (10/350) μs (core-ground)	1 kA
Total surge current (8/20) μs	18 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	18 kA
Nominal pulse current I_{an} (10/700) μs (Core-Core)	100 A
Nominal pulse current I_{an} (10/700) μs (Core-Earth)	100 A
Impulse discharge current (10/350) μs , peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/ μs (Core-Core) spike	$\leq 300 V$

Surge protection device - PT 2-TELE - 2882828

Technical data

Protective circuit

Output voltage limitation at 1 kV/μs (Core-Earth) spike	≤ 300 V
Output voltage limitation at 1 kV/μs (Core-Core) static	≤ 300 V
Output voltage limitation at 1 kV/μs (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 tA (Core-Core)	≤ 500 ns
Response time tA (Core-Earth)	≤ 500 ns
Input attenuation aE, 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 Ω ±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
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

Surge protection device - PT 2-TELE - 2882828

Technical data

Connection data

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

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

Ex Approvals

Surge protection device - PT 2-TELE - 2882828

Approvals

Approvals submitted

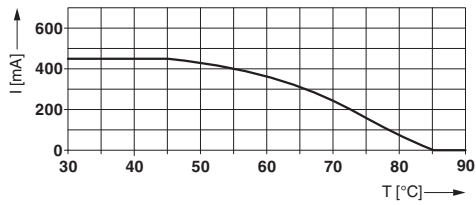
Approval details

EAC

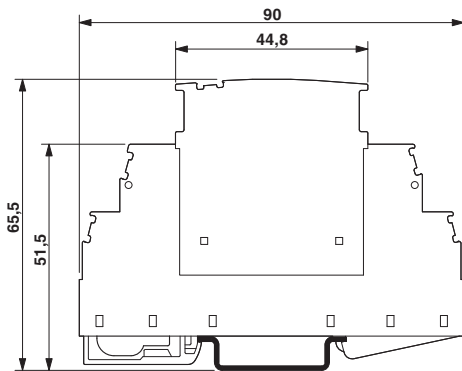
EAC

Drawings

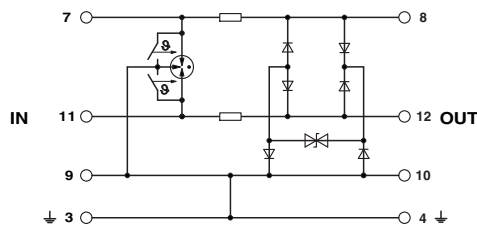
Diagram



Dimensional drawing

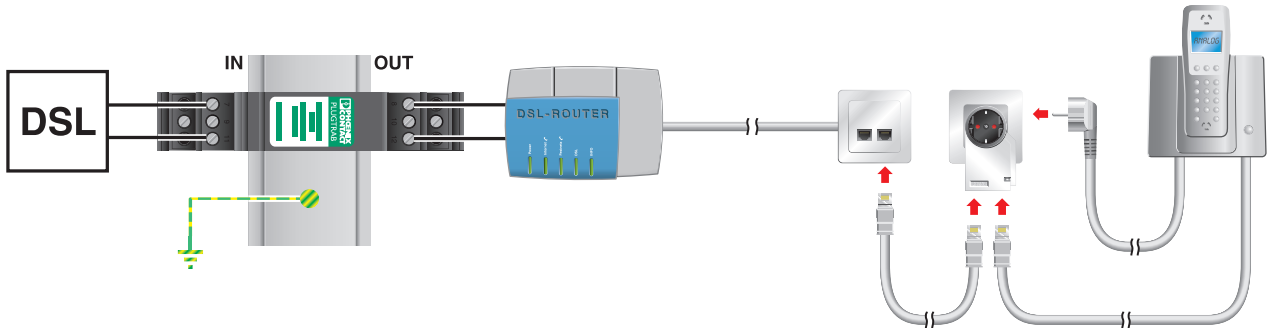


Circuit diagram



Surge protection device - PT 2-TELE - 2882828

Application drawing



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