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 (up to 16 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 GRM
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
Degree of protection	IP20

General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60644-1
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
Transmission speed	16 Mbit/s

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
	B2
VDE requirement class	C1
	C2
	C3
	D1
	B2
Maximum continuous operating voltage U_C	185 V DC
	130 V AC
Maximum continuous voltage UC (wire-wire)	185 V DC
	130 V AC
Maximum continuous voltage U_C (wire-ground)	185 V DC
	130 V AC
Nominal current I_N	450 mA (45°C)

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Protective circuit

Operating effective current I_C at U_C	≤ 10 µA
Residual current I_{PE}	≤ 10 µA
Nominal discharge current I_n (8/20) µs (Core-Core)	10 kA
Nominal discharge current I_n (8/20) µs (Core-Earth)	10 kA
Total surge current (8/20) µs	20 kA
Max. discharge current I_{max} (8/20) µs maximum (Core-Earth)	18 kA
Nominal pulse current Ian (10/700) µs (Core-Core)	100 A
Nominal pulse current Ian (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) 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)	≤ 330 V (C2 - 10 kV / 5 kA)
	≤ 300 V (C2 - 2 kV/1 kA)
	≤ 270 V (C1 - 1 kV/500 A)
	≤ 300 V (B2 - 4 kV/100 A)
Voltage protection level U_P (Core-Earth)	≤ 300 V (C2 - 2 kV / 1 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)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	typ. 20 MHz
Capacity (Core-Core)	typ. 30 pF
Capacity (Core-Earth)	typ. 30 pF
Resistance in series	2.2 Ω ±10 %
Surge current resistance (conductor-conductor)	B2 - 4 kV/100 A
	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 2 kV/25 A
	D1 - 1 kA
Surge current resistance (conductor-ground)	B2 - 4 kV/100 A
	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 2 kV/25 A
	D1 - 1 kA

Connection data

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Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Standards and Regulations

Standards/regulations	IEC 61643-21

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

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

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Classifications

UNSPSC

UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

Approval details

GOST

Accessories

Accessories

Labeled terminal marker

Zack marker strip - ZB 5,LGS:FORTL.ZAHLEN - 1050017

Zack marker strip, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

Terminal marking

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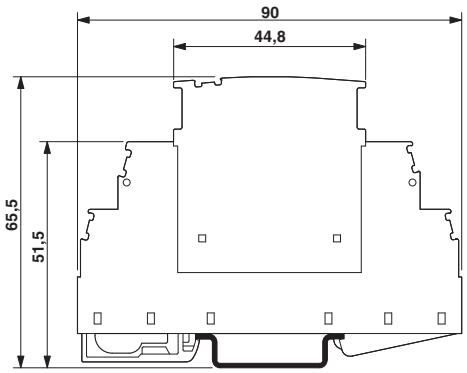
Accessories

Zack marker strip - ZB 5,8:UNBEDRUCKT - 2715209

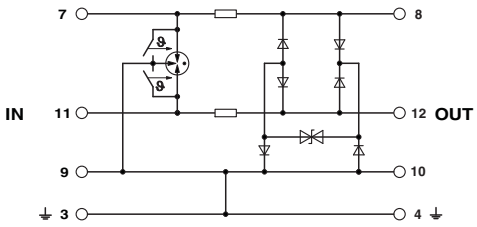
Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 5.8 mm, Lettering field: 5.75 x 10.5 mm

Drawings

Dimensioned drawing



Circuit diagram



Application drawing