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

package_quantity	10
GTIN	4046356115148

Technical data

Dimensions

Height	90 mm
Width	17.7 mm
Depth	65.5 mm
Pitch unit	1 Div.
Height	90 mm
Width	17.7 mm
Depth	65.5 mm

Ambient conditions

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

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Technical data

General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
Standards for air and creepage distances	IEC 60644-1
Mounting type	DIN rail: 35 mm
Design	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
IEC test classification	C2
IEC test classification	C3
IEC test classification	D1
IEC test classification	B2
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
VDE requirement class	B2
Maximum continuous operating voltage U_C	185 V DC
Maximum continuous operating voltage U_C	130 V AC
Maximum continuous voltage UC (wire-wire)	185 V DC
Maximum continuous voltage UC (wire-wire)	130 V AC
Maximum continuous voltage U_C (wire-ground)	185 V DC
Maximum continuous voltage U_C (wire-ground)	130 V AC
Nominal current I_N	450 mA (45°C)
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)

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Protective circuit

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)
Voltage protection level U_P (Core-Core)	≤ 300 V (C2 - 2 kV/1 kA)
Voltage protection level U_P (Core-Core)	≤ 270 V (C1 - 1 kV/500 A)
Voltage protection level U_P (Core-Core)	≤ 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 carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (4 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C3 (2 kV/25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	D1 (1 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	B2 (4 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (2 kV/25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (1 kA)

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

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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
UNSPSC 13.2	39121620

approvals

GOST /

Approval details

GOST

accessories

Labeled terminal marker

ZB 5,LGS:FORTL.ZAHLEN - 1050017

Terminal marking

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accessories

ZB 5,8:UNBEDRUCKT - 2715209

accessories

ZB 5:SO/CMS - 1050295

ZB 5,8,LGS:FORTL.ZAHLEN - 2715212

ZB 5,8:SO/CMS - 1050305

Drawings

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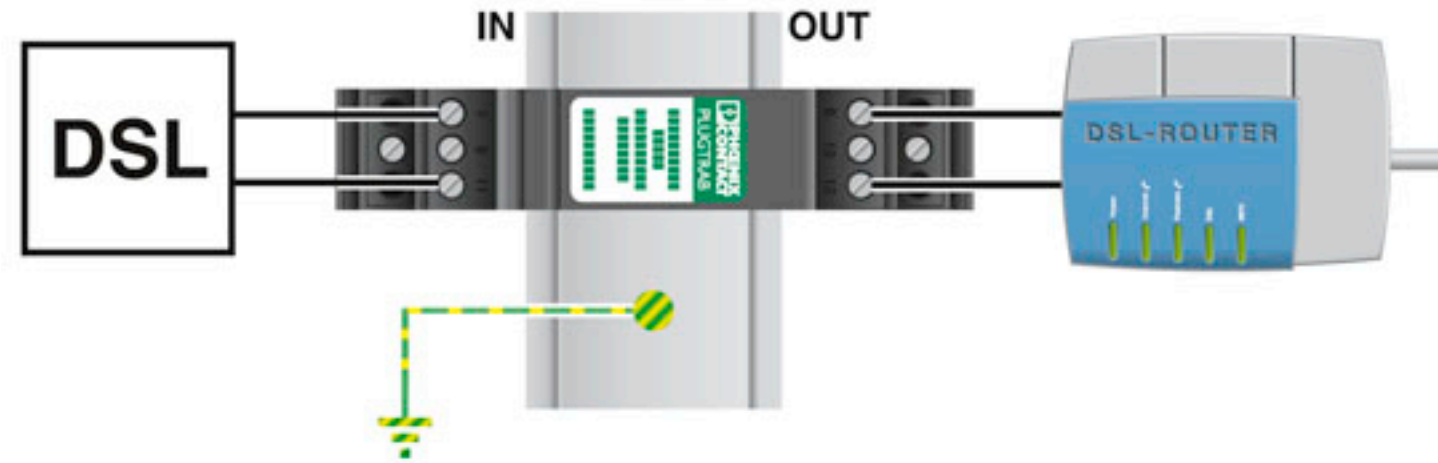
Application drawing



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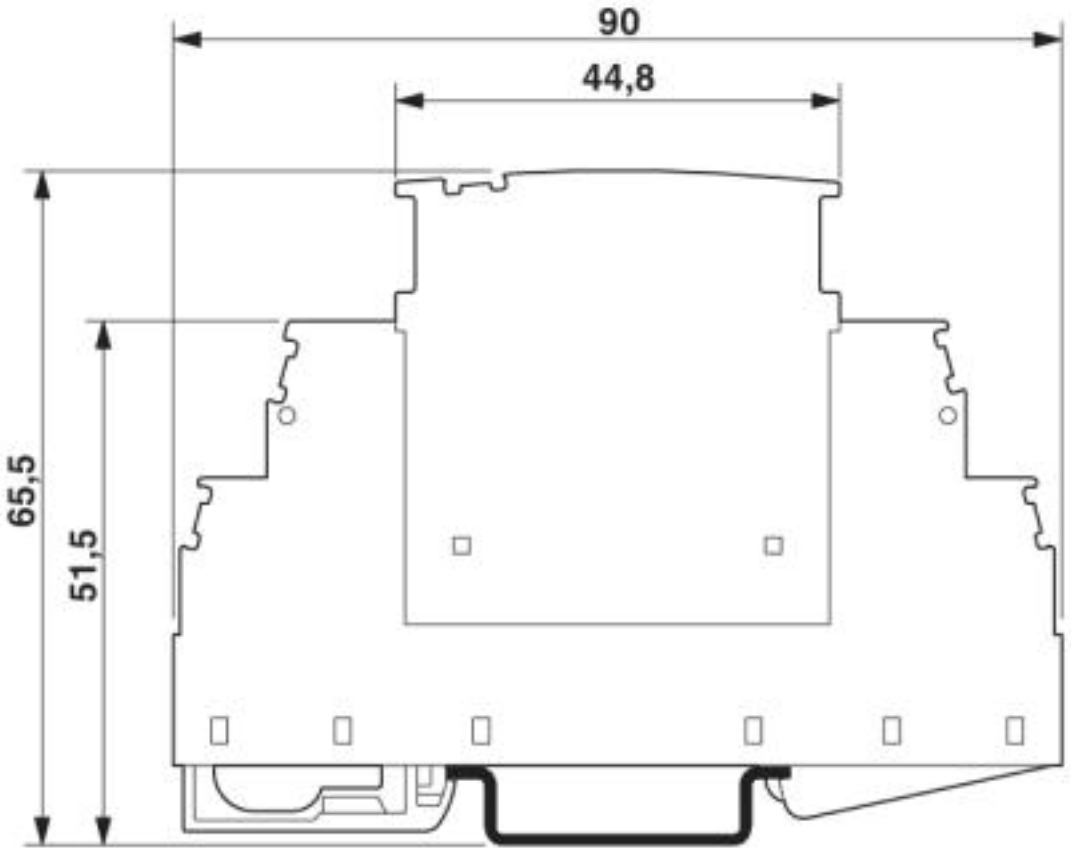
Dimensioned drawing



Circuit diagram