

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, on short paths (< 300 m) up to 100 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.

Your advantages

- ✓ 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 pc
GTIN	 4 046356 115148
GTIN	4046356115148

Technical data

Dimensions

Height	90 mm
Width	17.7 mm
Depth	51.5 mm
Horizontal pitch	1 Div.
Complete module height	90 mm
Complete module width	17.7 mm
Complete module depth	65.5 mm

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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
Nominal voltage U_N	185 V DC
	130 V AC
Maximum continuous voltage U_C	185 V DC
	130 V AC
Rated current	450 mA AC (45 °C)
	130 mA DC (45 °C)
Operating effective current I_C at U_C	$\leq 10 \mu\text{A}$
Residual current I_{PE}	$\leq 10 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (line-line)	10 kA
Nominal discharge current I_n (8/20) μs (line-earth)	10 kA
Pulse discharge current I_{imp} (10/350) μs (line-line)	1 kA
Pulse discharge current I_{imp} (10/350) μs (line-earth)	1 kA
Total discharge current I_{total} (8/20) μs	18 kA
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	18 kA
Nominal pulse current I_{an} (10/700) μs (line-line)	100 A
Nominal pulse current I_{an} (10/700) μs (line-earth)	100 A
Output voltage limitation at 1 kV/ μs (line-line) spike	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 300 \text{ V}$
Residual voltage at I_n (line-line)	$\leq 160 \text{ V}$ (C2 - 10 kV / 5 kA)
Residual voltage at I_n (line-earth)	$\leq 200 \text{ V}$ (C2 - 10 kV / 5 kA)

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Protective circuit

Voltage protection level U_p (line-line)	≤ 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 (line-earth)	≤ 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 (line-line)	≤ 500 ns
Response time t_A (line-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 (line-line)	typ. 30 pF ($f=1$ MHz / $V_R=0$ V)
Capacity (line-earth)	typ. 30 pF ($f=1$ MHz / $V_R=0$ V)
Resistance per path	2.2 $\Omega \pm 10\%$
Surge protection fault message	none
Impulse durability (line-line)	B2 - 4 kV / 100 A
	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 25 A
	D1 - 1 kA
Impulse durability (line-earth)	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 method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

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Technical data

Standards and Regulations

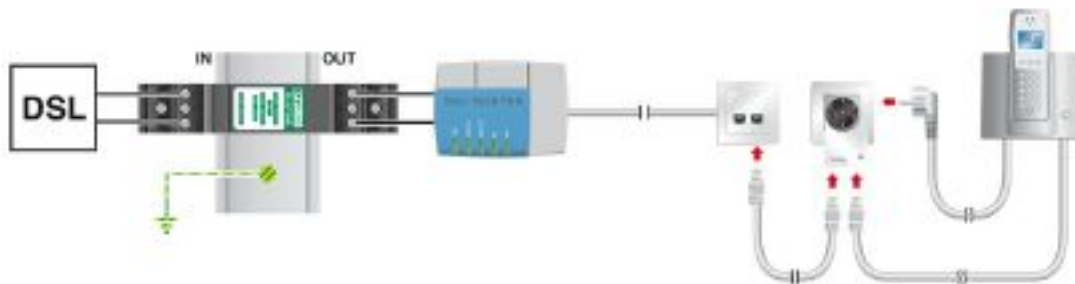
Standards/specifications	IEC 61643-21 2000
	EN 61643-21 2002

Environmental Product Compliance

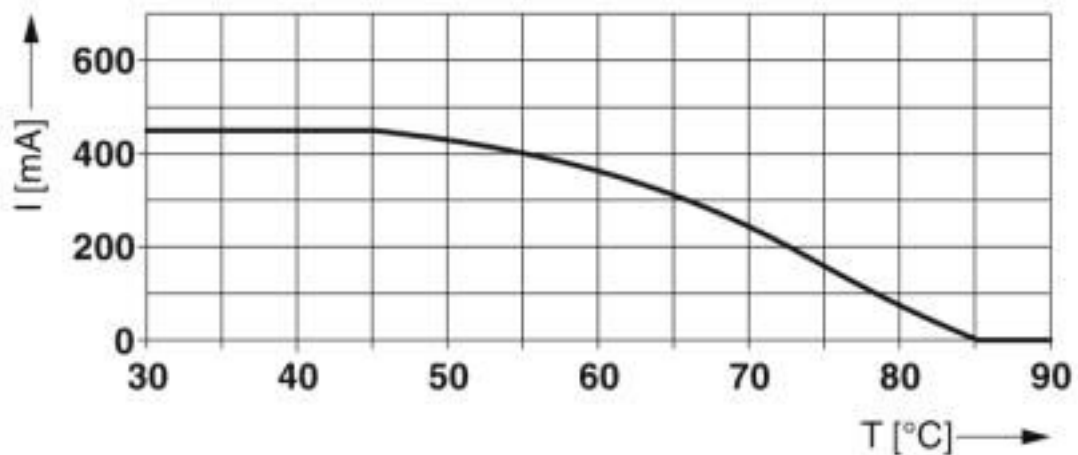
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Application drawing

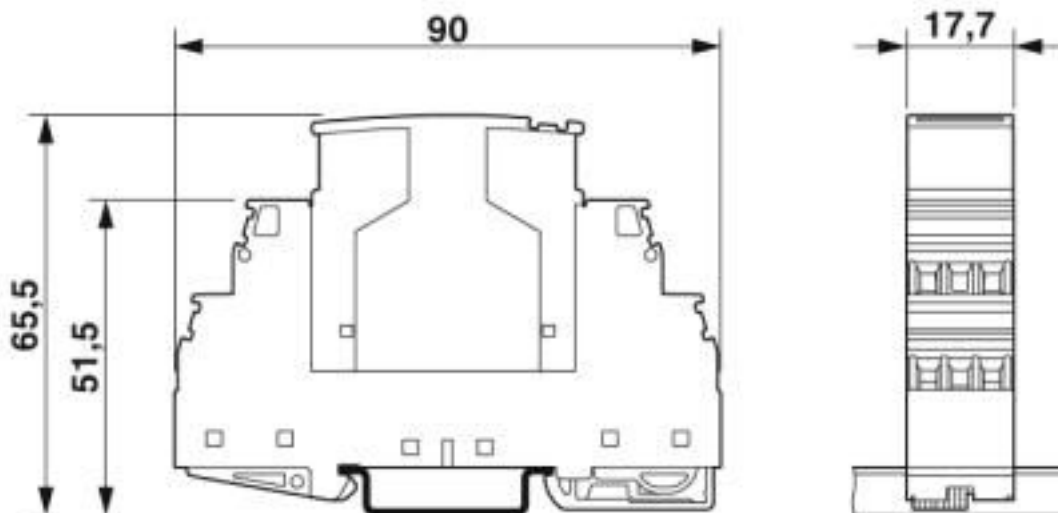


Diagram

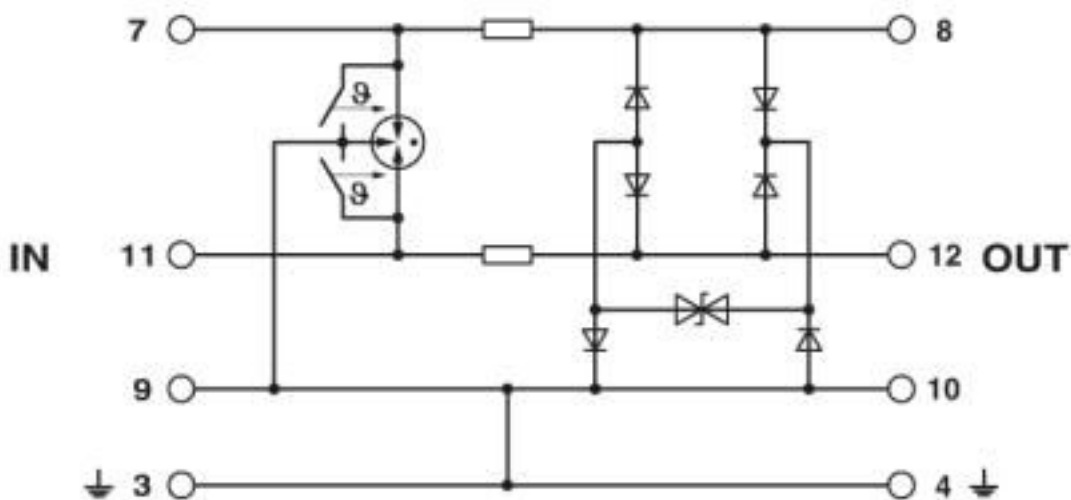


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Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

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Classifications

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals


Approvals


Approvals


UL Listed / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 477688
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 477688
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EAC		EAC-Zulassung
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Approvals

EAC		RU C- DE.*09.B.00169
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cULus Listed	
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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 size: 5.15 x 10.5 mm, Number of individual labels: 10

Terminal marking

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



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 5.8 mm, lettering field size: 5.75 x 10.5 mm, Number of individual labels: 10

Additional products

Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

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Accessories

Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Spare parts

Surge protection plug - PT 2-TELE-ST - 2838733



Surge protection plug for base element, for protecting a double conductor of analog telecommunication interfaces.

Surge protection base element - PT 1X2-BE - 2856113



Base element for protective plug PT with protective circuit for a 2-core floating signal circuit. Mounting on NS 35/7.5 und NS 35/15, housing width: 17.5 mm.

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