

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

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



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	20.38 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	45 mm
Width	17.7 mm
Depth	52 mm
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	V-0

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Technical data

General

Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60644-1
Mounting type	On base element
Type	DIN rail module, two-section, divisible
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
	B2
VDE requirement class	C1
	C2
	C3
	D1
	B2
Maximum continuous voltage U_C (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)
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
Total surge current (8/20) μs	20 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	$\leq 300 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 300 V$
Output voltage limitation at 1 kV/ μs (Core-Core) static	$\leq 300 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 300 V$

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Protective circuit

Residual voltage at I_n , (conductor-conductor)	$\leq 160 \text{ V}$ (C2 - 10 kV / 5 kA)
Residual voltage at I_n , (conductor-ground)	$\leq 200 \text{ V}$ (C2 - 10 kV / 5 kA)
Voltage protection level U_p (Core-Core)	$\leq 330 \text{ V}$ (C2 - 10 kV / 5 kA)
	$\leq 300 \text{ V}$ (C2 - 2 kV/1 kA)
	$\leq 270 \text{ V}$ (C1 - 1 kV/500 A)
	$\leq 300 \text{ V}$ (B2 - 4 kV/100 A)
Response time t_A (Core-Core)	$\leq 500 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 500 \text{ ns}$
Input attenuation a_E , sym.	typ. 0.4 dB ($\leq 5 \text{ MHz}$)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	typ. 20 MHz
Capacity (Core-Core)	typ. 30 pF ($f=1 \text{ MHz}$ / $V_R=0 \text{ V}$)
Capacity (Core-Earth)	typ. 30 pF ($f=1 \text{ MHz}$ / $V_R=0 \text{ V}$)
Resistance in series	$2.2 \Omega \pm 10 \%$
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

Connection method	Screw connection (in connection with the base element)
Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system

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

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Classifications

eCl@ss

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

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

Approval details

GOST 
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Accessories

Accessories

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Labeled terminal marker

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 2 - 20, 22 - 40, etc. up to 82 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

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Accessories

Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Terminal marking

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm

Zack Marker strip, flat - ZBF 5/WH-100:UNBEDRUCKT - 0808668

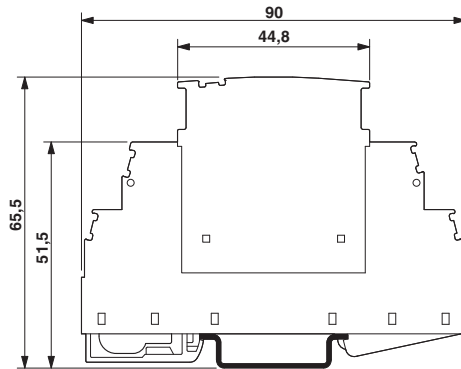


Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

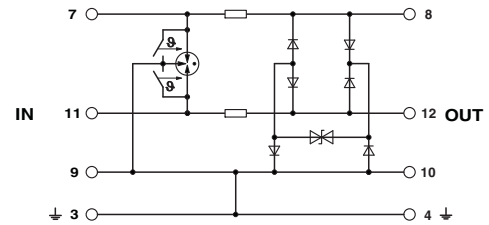
Drawings

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Dimensioned drawing



Circuit diagram



The figure shows the complete module consisting of a base element and connector