Surge protection connector - 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
Minimum order quantity	1
Catalog page	Page 155 (TT-2011)
GTIN	4 046356 044677
Custom tariff number	85369010
Country of origin	GERMANY

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
Total surge current (8/20) µs	20 kA
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	On base element
Design	DIN rail module, two-section, divisible
Number of positions	2
Degree of protection	IP20
Direction of action	Line-Line & Line-Earth Ground
Width	17.7 mm
Height	45 mm
Depth	52 mm
Pitch unit	1 Div.

Protective circuit

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

Technical data

Protective circuit

IEC category	C1
IEC category	C2
IEC category	C3
IEC category	D1
IEC category	B2
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
VDE requirement class	B2
Maximum continuous voltage UC (wire-wire)	185 V DC
Maximum continuous voltage UC (wire-wire)	130 V AC
Maximum continuous voltage UC (wire-ground)	185 V DC
Maximum continuous voltage UC (wire-ground)	130 V AC
Nominal current IN	450 mA (45°C)
Operating effective current IC at UC	≤ 10 µA
Ground conductor current IPE	≤ 10 µA
Nominal discharge surge current In (8/20) µs (Core-Core)	10 kA
Nominal discharge surge current In (8/20) µs (Core-Earth)	10 kA
Total surge current (8/20) µs	20 kA
Max. discharge surge current Imax (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
Lightning test current (10/350) µs, peak value limp	1 kA
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 300 V
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 In, (conductor-conductor)	≤ 160 V (C2 - 10 kV / 5 kA)
Residual voltage at In, (conductor-ground)	≤ 200 V (C2 - 10 kV / 5 kA)
Protection level UP (Core-Core)	≤ 330 V (C2 - 10 kV / 5 kA)
Protection level UP (Core-Core)	≤ 300 V (C2 - 2 kV/1 kA)
Protection level UP (Core-Core)	≤ 270 V (C1 - 1 kV/500 A)
Protection level UP (Core-Core)	≤ 300 V (B2 - 4 kV/100 A)
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 (f=1 MHz / VR= 0 V)
Capacity (Core-Earth)	Typ. 30 pF (f=1 MHz / VR= 0 V)
Resistance in series	2.2 Ω ±10 %
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (4 kV / 100 A)

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

Technical data

Protective circuit

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

Connection, protective circuit

Standards/regulations	IEC 61643-21

Classifications

eclass

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

etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

unspsc

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

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

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

Approval details

GOST

Accessories

Accessories

Marking

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

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

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

Accessories

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

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

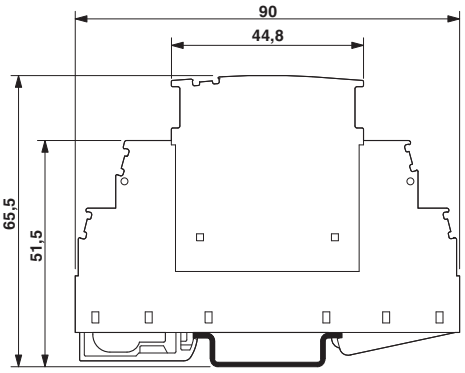
Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128

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

Drawings

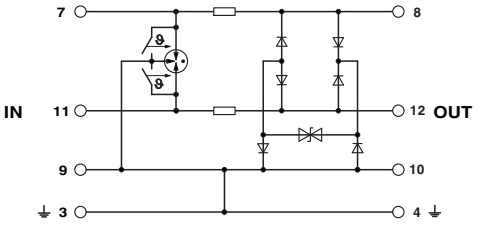
Surge protection connector - PT 2-TELE-ST - 2838733

Dimensioned drawing



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

Circuit diagram



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