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Surge protection plug for the base element, coarse and fine protection for two signal wires with common reference potential, common mode voltage coarse protection to ground. Design: 24 V AC

The illustration shows the version PT 2x1- 5 DC-ST

Product Features

- ☑ Plugs can be checked with CHECKMASTER
- ✓ Installed in conjunction with the PT 2x1...-BE base element
- Maximum ease of maintenance thanks to the two-piece design
- ☑ Base element remains an integral part of the installation
- Consistent plug-in signal circuit protection
- Protection for two conductors with common reference potential





Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	20.74 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.



Technical data

Dimensions

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 6.6		
Inflammability class according to UL 94	V0		
Color	black		
Standards for air and creepage distances	VDE 0110-1		
	IEC 60664-1		
Mounting type	On base element		
Туре	DIN rail module, two-section, divisible		
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield- Earth Ground		
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00		

Protective circuit

IEC test classification	C1	
	C2	
	C3	
	D1	
VDE requirement class	C1	
	C2	
	C3	
	D1	
Nominal voltage U _N	24 V AC	
Maximum continuous operating voltage U _C	40 V DC	
	28 V AC	
Maximum continuous voltage U _C (wire-ground)	40 V DC	
	28 V AC	
Nominal current I _N	300 mA (45°C)	
Operating effective current I _C at U _C	≤ 5 µA	
Residual current I _{PE}	≤ 1 µA (BE: 2x1+F)	
	≤ 10 µA (Directly grounded)	
Nominal discharge current I _n (8/20) μs (Core-Earth)	10 kA	



Technical data

Protective circuit

Total surge current (8/20) µs	20 kA
Max. discharge current I _{max} (8/20) μs maximum (Core-Earth)	10 kA
Nominal pulse current lan (10/1000) µs (Core-Earth)	23 A
Impulse discharge current (10/350)#µs, peak value l _{imp}	2.5 kA (per path)
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 60 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 55 V
Residual voltage at I _n , (conductor-ground)	≤ 55 V
Residual voltage with Ian (10/1000)µs (conductor-ground)	≤ 65 V (Directly grounded)
Voltage protection level U _P (Core-Earth)	≤ 100 V (C2 (10 kV/5 kA))
Response time tA (Core-Earth)	≤ 1 ns
Input attenuation aE, asym.	0.5 dB (≤ 1.5 MHz)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system	typ. 8 MHz
Capacity (Core-Earth)	1.1 nF
Resistance in series	4.7 Ω (1-2/5-6/7-8/11-12)
Surge protection fault message	None
Max. required back-up fuse	315 mA (e.g. T (IEC 127-2/III))
Surge current resistance (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 2,5 kA

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



Classifications

UNSPSC

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

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Approvals

UL Listed / GOST

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Listed 🕦	
Nominal current IN	0.3 A
Nominal voltage UN	34 V

GOST 🕑

Accessories

Accessories

Device marking



Accessories

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

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



Accessories

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

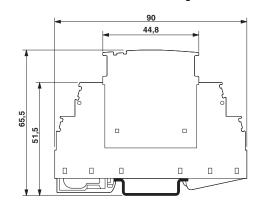


Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

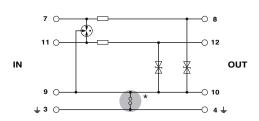
Drawings



Dimensioned drawing



Circuit diagram



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

Catalog photo



Figure may contain other products.

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