

PT 2X1-VF-120AC-ST


Order No.: 2856799



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Protective connector with protective circuit free of leakage current for two floating signals. Connection in series, consisting of varistor and gas-filled surge arrester between signal wires and ground.



Commercial data	
GTIN (EAN)	 4 017918 974558
Note	Made-to-order
sales group	J203
Pack	10 pcs.
Customs tariff	85363010
Catalog page information	Page 91 (TT-2009)

Product notes

WEEE/RoHS-compliant since:
06/03/2006



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Technical data	
General	
Housing material	PA 6.6
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	IEC 60664-1: 1992-10
	DIN VDE 0110-1
Surge voltage category	III
Pollution degree	2
Ambient temperature (operation)	-40 °C ... 80 °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	17.70 mm
Height	52.00 mm
Length	45.00 mm
Pitch unit	1 Div.

Protective circuit

IEC category	C1
	C2
	C3
Nominal voltage U_N	120 V AC
Maximum continuous operating voltage U_C	175 V AC
Nominal current I_N	6 A (PT BE/FM)
Operating effective current I_C at U_C	$\leq 2 \mu\text{A}$
Ground conductor current I_{PE}	$\leq 4 \mu\text{A}$
Nominal discharge surge current I_n (8/20) μs	3 kA
Max. discharge surge current I_{max} (8/20) μs	8 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	40 A
Lightning test current (10/350) μs , peak value I_{imp}	300 A
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 800 \text{ V}$
Residual voltage at I_n , (conductor-ground)	$\leq 600 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (conductor-ground)	$\leq 360 \text{ V}$
Energy absorption	85 J
Protection level U_p	$\leq 1 \text{ kV}$ (C2 - 2 kA)

Protection level U_p (Core-Earth)	≤ 900 V (C1 - 500 A)
	≤ 950 V (C2 - 1 kA)
	≤ 1 kV (C3 - 25 A)
	≤ 1.1 kV (I_{imp} -300 A)
Response time t_A :	≤ 100 ns
Capacity	Typ. 3 pF
Resistance in series	0 Ω
Max. required back-up fuse	6 A (PT BE/FM)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
	C2 (4 kV / 2 kA)
	C3 (25 A)

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	EN 61643-21
	IEC 61643-21

Certificates / Approvals



Certification GOST

Accessories

Item	Designation	Description
Marking		
0811228	X-PEN 0,35	Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm
0814717	ZBF 15:SO/CMS	Zack strip, flat, 10-section, divisible, special printing, marking according to customer requirements

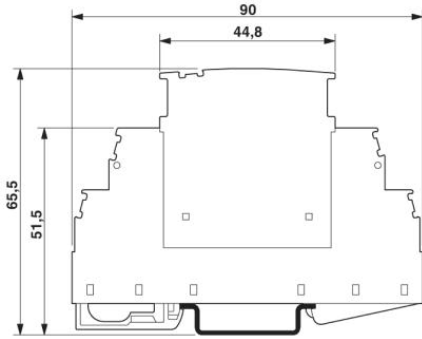
0808671	ZBF 5,LGS:FORTL.ZAHLEN	Zack marker strip, flat, printed horizontally: 10-section, with the numbers 1 - 10, 11 - 20, and so on up to 491 - 500, color: white
0810821	ZBF 5,LGS:GERADE ZAHLEN	Zack marker strip, flat, printed horizontally: 10-section, with even numbers, printed with the numbers: 2-20, 22-40, etc. up to 82-100
0810863	ZBF 5,LGS:UNGERADE ZAHLEN	Zack strip, flat, printed horizontally: 10-section, with odd numbers, printed with the numbers: 1-19, 21-39 etc. up to 81-99
0808697	ZBF 5,QR:FORTL.ZAHLEN	Zack marker strip, flat, printed vertically: 10-section, with the numbers 1 - 10, 11 - 20, and so on up to 91 - 100, color: white
0808668	ZBF 5/WH-100:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, large batch, sufficient for labeling 1000 terminal blocks, color: white
0808642	ZBF 5:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, sufficient for 100 terminal blocks, color: white
0800763	ZBN 18:SO/CMS	Marker labels, 5-section, special printing, labeled according to customer requirements (Please specify the required marking with order), for terminal width: 17.5 mm, color: White
2809128	ZBN 18:UNBEDRUCKT	Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White

Additional products

Item	Designation	Description
Assembly		
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black
General		
2839282	PT-BE/FM	Base element for protective plug PT, for mounting on NS 35/7.5 and NS 35/15, housing width: 17.5 mm

Diagrams/Drawings

Dimensioned drawing



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

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