

PT 5-HF- 5 DC-ST


Order No.: 2838762

The illustration shows variant PT 5-HF-12 DC-ST

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Protective plug PT with HF protective circuit for 4 signal wires. Nominal voltage: 5 V DC



Commercial data	
GTIN (EAN)	 4 017918 480653
sales group	J431
Pack	10 pcs.
Customs tariff	85363010
Catalog page information	Page 100 (TT-2011)

Product notes

WEEE/RoHS-compliant since:
05/17/2006



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Technical data

General

Housing material	PA
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
Total surge current (8/20) μ s	20 kA
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	On base element
Design	DIN rail module, two-section, divisible
Number of positions	5
Degree of protection	IP20
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
Width	17.70 mm
Height	52.00 mm
Length	45.00 mm
Pitch unit	1 Div.
Protective circuit	
IEC category	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Nominal voltage U_N	5 V DC
Maximum continuous operating voltage U_C	5.2 V DC
	3.6 V AC
Maximum continuous voltage U_C (wire-wire)	5.2 V DC
	3.6 V AC
Maximum continuous voltage U_C (wire-ground)	5.2 V DC (with PT 2x2-BE)
Nominal current I_N	450 mA (45°C)
Operating effective current I_C at U_C	$\leq 300 \mu$ A
Ground conductor current I_{PE}	$\leq 300 \mu$ A (with PT 2x2-BE)
	$\leq 1 \mu$ A (with PT 2x2+F-BE)

Nominal discharge surge current I_n (8/20) μs (Core-Core)	10 kA
Nominal discharge surge current I_n (8/20) μs (Core-Earth)	10 kA
Total surge current (8/20) μs	20 kA
Max. discharge surge current I_{max} (8/20) μs maximum (Core-Core)	10 kA
Max. discharge surge current I_{max} (8/20) μs maximum (Core-Earth)	10 kA
Nominal pulse current I_{an} (10/1000) μs (Core- Core)	90 A
Lightning test current (10/350) μs , peak value I_{imp}	2.5 kA
Output voltage limitation at 1 kV/ μs (Core-Core) spike	≤ 55 V
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	≤ 55 V
	≤ 700 V (with PT 2x2+F-BE)
Output voltage limitation at 1 kV/ μs (Core-Core) static	≤ 15 V
Output voltage limitation at 1 kV/ μs (Core-Earth) static	≤ 15 V
Output voltage limitation at 1 kV/ μs (Core-GND) static	≤ 15 V (9/10)
Residual voltage at I_n , (conductor-conductor)	≤ 15 V
Residual voltage at I_n , (conductor-ground)	≤ 30 V
Residual voltage at I_n , (conductor-GND)	≤ 15 V (with PT 2x2-BE)
Residual voltage with I_{an} (10/1000) μs (conductor- conductor)	≤ 15 V
Residual voltage with I_{an} (10/1000) μs (conductor- GND)	≤ 15 V
Protection level U_p (Core-Core)	≤ 100 V (C2 (10 kV/5 kA))
Protection level U_p (Core-Earth)	≤ 100 V (C2 (10 kV/5 kA) mit BE 2839208)
	≤ 600 V (C2 (10 kV/5 kA) mit BE 2839224)
Response time t_A (Core-Core)	≤ 500 ns
Response time t_A (Core-Earth)	≤ 500 ns
Input attenuation aE, sym.	0.2 dB (≤ 5 MHz)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	Typ. 70 MHz
Capacity (Core-Core)	Typ. 30 pF
Resistance in series	2.2 Ω
Max. required back-up fuse	500 mA (e.g. T in acc. with IEC 127-2/III)

Connection data

Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system

Connection, protective circuit

Standards/regulations	IEC 61643-21
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Certificates / Approvals



Certification	GOST, UL Listed
Certification Ex:	CUL-EX LIS, UL-EX LIS

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
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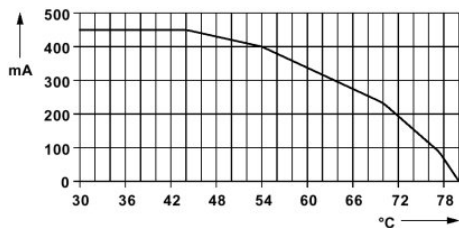
Additional products

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

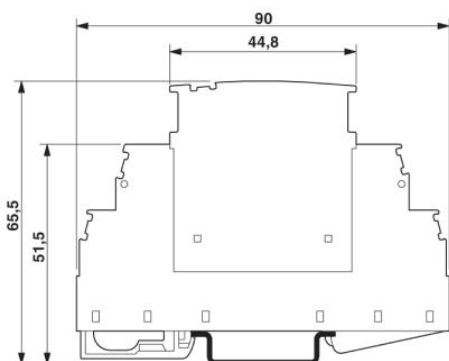
General		
2839208	PT 2X2-BE	Base element for protective plug PT with protective circuit for two 2-wire floating signal circuit, bridge between the connections 3-4 (GND) and 9-10, for mounting on NS 35/7.5 and NS 35/15, housing width: 17.5 mm

Diagrams/Drawings

Diagram

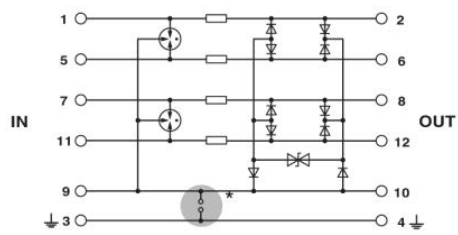


Dimensioned drawing



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

Circuit diagram



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