

Surge protection connector - PT 5-HF-5DC-ST - 2838762

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

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

Why buy this product

- High transmission speed
- High discharge capacity
- Plugs can be checked with CHECKMASTER



Key commercial data

Packing unit	1
Minimum order quantity	10
Catalog page	Page 100 (TT-2011)
GTIN	 4 017918 480653
Custom tariff number	85363010
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	DIN EN 61664-1
Standards for air and creepage distances	IEC 60664-1
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

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Technical data

General

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	17.7 mm
Height	45 mm
Depth	52 mm
Pitch unit	1 Div.

Protective circuit

IEC category	C1
IEC category	C2
IEC category	C3
IEC category	D1
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
Nominal voltage UN	5 V DC
Maximum continuous operating voltage UC	5.2 V DC
Maximum continuous operating voltage UC	3.6 V AC
Maximum continuous voltage UC (wire-wire)	5.2 V DC
Maximum continuous voltage UC (wire-wire)	3.6 V AC
Maximum continuous voltage UC (wire-ground)	5.2 V DC (with PT 2x2-BE)
Nominal current IN	450 mA (45°C)
Operating effective current IC at UC	≤ 300 µA
Ground conductor current IPE	≤ 300 µA (with PT 2x2-BE)
Ground conductor current IPE	≤ 1 µA (with PT 2x2+F-BE)
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 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 limp	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 (PT 2x2-BE)
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 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-Earth) static	≤ 30 V (PT 2x2+F-BE)

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Protective circuit

Residual voltage at In, (conductor-conductor)	≤ 15 V
Residual voltage at In, (conductor-ground)	≤ 30 V (with PT 2x2-BE)
Residual voltage at In, (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 UP (Core-Core)	≤ 100 V (C2 (10 kV/5 kA))
Protection level UP (Core-Core)	≤ 34 V (C3 - 25 A)
Protection level UP (Core-Earth)	≤ 100 V (C2 (10 kV/5 kA) with BE 2839208)
Protection level UP (Core-Earth)	≤ 600 V (C2 (10 kV/5 kA) with BE 2839224)
Protection level UP (Core-Earth)	≤ 34 V (C3 - 25 A)
Protection level UP (Core-GND)	≤ 38 V (C3 - 25 A)
Response time t _A (Core-Core)	≤ 500 ns
Response time t _A (Core-Earth)	≤ 500 ns
Input attenuation a _E , sym.	Typ. 0.2 dB (≤ 5 MHz / 100 Ω)
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 ±10 %
Max. required back-up fuse	500 mA (e.g. T in acc. with IEC 127-2/III)
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 (90 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 (90 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (2.5 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

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

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Classifications

unspsc

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

Approvals

Approvals

Approvals

UL Listed / GOST

Ex Approvals

UL Listed / cUL Listed / cULus Recognized

Approvals submitted

Approval details

UL Listed	
Nominal current IN	0.45 A
Nominal voltage UN	5 V

GOST	
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Accessories

Accessories

Marking

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Accessories

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

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

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

Necessary add-on products

Surge protection base element - PT 2X2-BE - 2839208



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

Additional products

Shield connection - SSA 3-6 - 2839295



shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

Shield connection - SSA 5-10 - 2839512

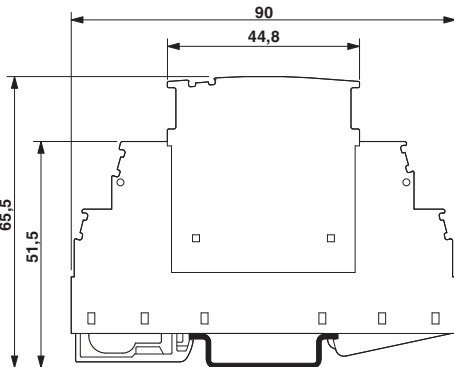


Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

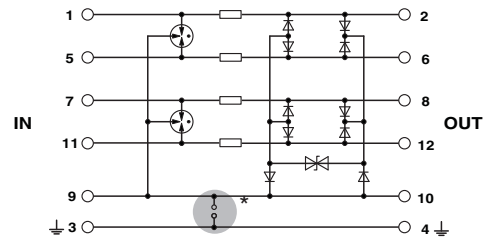
Drawings

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Dimensioned drawing



Circuit diagram



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

Diagram



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