Surge protection device - TT-PI-TB - 2858373

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Basic terminal block, with isolating connector, test connections and surge protection, mounting on NS 35/7.5

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	99.0 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	144.7 mm
Width	12.35 mm
Depth	84.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

General

Housing material	PBT
Flammability rating according to UL 94	V2
Color	black
Standards for cearances and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	DIN rail: 35 mm
Type	PI basic terminal block
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

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Technical data

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V AC
Maximum continuous voltage U_C	45 V DC
	31 V AC
Maximum continuous voltage U_C (wire-ground)	45 V DC
	31 V AC
Nominal current I_N	250 mA (40°C)
Operating effective current I_C at U_C	≤ 5 µA
Residual current I_{PE}	≤ 2 µA
Nominal discharge current I_n (8/20) µs (Core-Core)	5 kA
Nominal discharge current I_n (8/20) µs (Core-Earth)	5 kA
Total surge current (8/20) µs	10 kA
Max. discharge current I_{max} (8/20) µs maximum (Core-Core)	5 kA
Max. discharge current I_{max} (8/20) µs maximum (Core-Earth)	5 kA
Nominal pulse current Ian (10/1000) µs (Core-Core)	100 A
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A
Impulse discharge current (10/350)#µs, peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 90 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 650 V
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 70 V
Residual voltage at I_n (conductor-conductor)	≤ 45 V
Residual voltage with Ian (10/1000)µs (conductor-conductor)	≤ 70 V
Voltage protection level U_p (core-core)	≤ 110 V (C2 - 10 kV/5 kA)
Voltage protection level U_p (core-ground)	≤ 650 V (C2 - 10 kV/5 kA)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	1 dB (≤ 1 MHz / 50 Ω)
	0.3 dB (≤ 150 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 6 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 2 MHz
Resistance in series	4.7 Ω ±10 %
Surge protection fault message	None
Impulse durability (conductor-conductor)	C2 - 10 kV/5 kA

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Technical data

Protective circuit

Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	D1 (500 A)

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14

Standards and Regulations

Standards/regulations	IEC 61643-21
	EN 50020

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
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610

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Classifications

UNSPSC

UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Accessories

Accessories

Bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786

Continuous plug-in bridge, Length: 500 mm, Color: red

Continuous plug-in bridge - FBST 500-PLC BU - 2966692

Continuous plug-in bridge, Length: 500 mm, Color: blue

Continuous plug-in bridge - FBST 500-PLC GY - 2966838

Continuous plug-in bridge, Length: 500 mm, Color: gray

Labeled terminal marker

Marker for terminal blocks - ZBFM 6/WH,LGS:1-100 - 0800284

Marker for terminal blocks, Sheet, white, labeled, Printed horizontally: Consecutive numbers from 1 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5 x 5.5 mm

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Accessories

Flat zack marker sheet - ZBFM 6/WH,LGS:FORTL.ZAHLEN - 0803621

Flat zack marker sheet, Sheet, white, labeled, Printed horizontally: Consecutive numbers from 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5 x 5.5 mm

Terminal marking

Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618

Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5 x 5.5 mm

Additional products

Continuous plug-in bridge - FBST 500-PLC RD - 2966786

Continuous plug-in bridge, Length: 500 mm, Color: red

Continuous plug-in bridge - FBST 500-PLC BU - 2966692

Continuous plug-in bridge, Length: 500 mm, Color: blue

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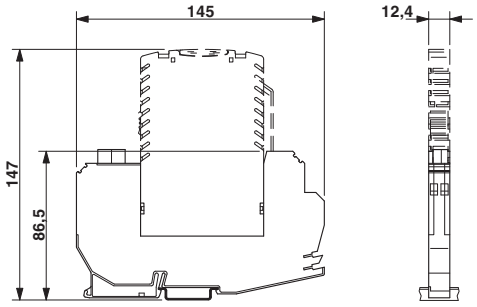
Accessories

Continuous plug-in bridge - FBST 500-PLC GY - 2966838

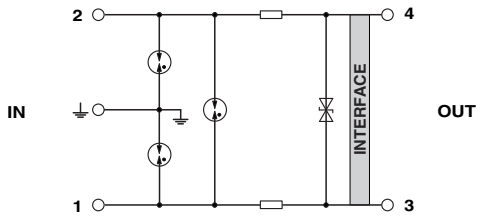
Continuous plug-in bridge, Length: 500 mm, Color: gray

Drawings

Dimensional drawing



Circuit diagram



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