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Intrinsically safe basic terminal block with isolating connector, test connections and surge protection, for mounting on NS 35/7.5



### **Key Commercial Data**

Packing unit	1 pc
Weight per Piece (excluding packing)	106.5 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)	-20 °C 60 °C
Degree of protection	IP20

#### General

Housing material	РВТ
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



# Technical data

### General

Туре	PI basic terminal block
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

#### Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U <sub>N</sub>	24 V DC
Maximum continuous voltage U <sub>C</sub>	30 V DC
	21 V AC
Maximum continuous voltage U <sub>C</sub> (wire-wire)	30 V DC
	21 V AC
Nominal current I <sub>N</sub>	250 mA (40°C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 5 µA
Residual current I <sub>PE</sub>	≤ 4 µA
Nominal discharge current I <sub>n</sub> (8/20) μs (Core-Core)	5 kA
Nominal discharge current I <sub>n</sub> (8/20) μs (Core-Earth)	5 kA
Total surge current (8/20) µs	10 kA
Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Core)	5 kA
Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Earth)	5 kA
Nominal pulse current lan (10/1000) µs (Core-Core)	100 A
Nominal pulse current lan (10/1000) µs (Core-Earth)	100 A
lmpulse discharge current (10/350)#µs, peak value l <sub>imp</sub>	1 kA
Output voltage limitation at 1 kV/µs (Core-Earth) spike	1.85 kV
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 45 V
Residual voltage at I <sub>n</sub> (conductor-conductor)	≤ 45 V
Residual voltage with Ian (10/1000)µs (conductor-conductor)	≤ 45 V
Voltage protection level U <sub>p</sub> (core-core)	≤ 90 V (C2 - 10 kV/5 kA)
Voltage protection level U <sub>p</sub> (core-ground)	≤ 1.85 kV (C2 - 10 kV/5 kA)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	0.8 dB (≤ 1 MHz / 50 Ω)
	$0.3~\mathrm{dB}~(\leq 250~\mathrm{kHz}~/~150~\Omega)$
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 7 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 2 MHz



# Technical data

### Protective circuit

Resistance in series	4.7 Ω ±10 %
Surge protection fault message	None
Impulse durability (conductor-conductor)	C2 - 10 kV/5 kA
	C3 - 100 A
Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 1 kA

### 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 mm <sup>2</sup>
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

### General

Maximum inner capacitance C <sub>i</sub>	3 nF
Maximum inner inductance L <sub>i</sub>	1 μΗ
Maximum inner time factor (R <sub>i</sub> /L <sub>i</sub> )	0.1 µs
Max. input current I <sub>i</sub>	250 mA
Max. input voltage U <sub>i</sub>	30 V

## 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

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## Classifications

### eCl@ss

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
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



#### Accessories

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

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:  $5 \times 5.5 \text{ mm}$ 

#### Additional products



### Accessories

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

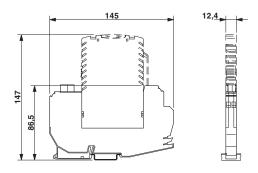
Continuous plug-in bridge - FBST 500-PLC GY - 2966838



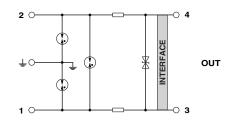
Continuous plug-in bridge, Length: 500 mm, Color: gray

## **Drawings**

#### Dimensional drawing



## Circuit diagram



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**Authorized Distributor** 

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