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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	10 pc
GTIN	4 017918 914011
Weight per Piece (excluding packing)	99.73 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

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	PBT
Inflammability class 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 _N	24 V DC
Maximum continuous voltage U _C	30 V DC
	21 V AC
Maximum continuous voltage U _C (wire-wire)	30 V DC
	21 V AC
Nominal current I _N	250 mA (40°C)
Operating effective current I _C at U _C	≤ 5 µA
Residual current I _{PE}	≤ 4 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 lan (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 l _{imp}	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 _n (conductor-conductor)	≤ 45 V
Residual voltage with lan (10/1000)µs (conductor-conductor)	≤ 45 V
Voltage protection level U_p (core-core)	≤ 90 V (C2 - 10 kV/5 kA)
Voltage protection level U _p (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.	$0.8 \text{ dB } (\leq 1 \text{ MHz} / 50 \Omega)$
	$0.3~\mathrm{dB}~(\leq 250~\mathrm{kHz}~/~150~\Omega)$
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
Resistance in series	4.7 Ω ±10 %
	4.7 Ω
Surge protection fault message	None



Technical data

Protective circuit

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 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

General

Maximum inner capacitance C _i	3 nF
Maximum inner inductance L _i	1 μΗ
Maximum inner time factor (R _i /L _i)	0.1 µs
Max. input current I _i	250 mA
Max. input voltage U _i	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
eCl@ss 8.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943



Classifications

ETIM

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

Approvals

Approvals

Approvals

GOST

Ex Approvals

ATEX

Approvals submitted

Approval details



Accessories

Accessories

Bridge

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



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



Accessories

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

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

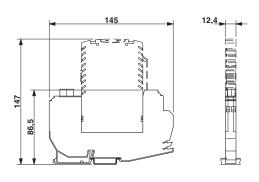
Continuous plug-in bridge - FBST 500-PLC GY - 2966838



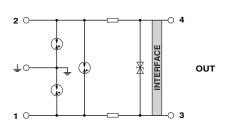
Continuous plug-in bridge, Length: 500 mm, Color: gray

Drawings

Dimensional drawing



Circuit diagram



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