

Surge protection device - D-UFB-PB - 2880642

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Fine surge protection in a 9-pos. D-SUB plug for PROFIBUS-DP applications with a transmission speed of up to 12 Mbps.

Product Features

- ☒ Integrated termination resistor
- ☒ Data transmission speed up to 12 Mbps
- ☒ Direct use at the interface



Key commercial data

package_quantity	1
GTIN	4046356048989

Technical data

Dimensions

Height	58 mm
Width	44.5 mm
Depth	16.6 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 75 °C
Ambient temperature (storage/transport)	-20 °C ... 75 °C
Degree of protection	IP40

General

Housing material	ABS, metal-plated
Color	silver
Standards for air and creepage distances	IEC 60664-1
Standards for air and creepage distances	DIN VDE 0110-1
Surge voltage category	II
Pollution degree	2
Mounting type	Direct assembly on the device interface
Design	Connecting plug
Number of positions	4
Direction of action	Line-Line & Line-Earth Ground

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Technical data

Protective circuit

IEC test classification	C1
IEC test classification	C3
IEC test classification	B2
VDE requirement class	C1
VDE requirement class	C3
VDE requirement class	B2
Maximum continuous operating voltage U_c	5.2 V DC
Maximum continuous voltage U_C (wire-wire)	5.2 V DC
Maximum continuous voltage U_c (wire-ground)	5.2 V DC
Nominal current I_N	250 mA (25 °C)
Operating effective current I_c at U_c	$\leq 100 \mu A$
Residual current I_{PE}	$\leq 100 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Core)	350 A
Nominal discharge current I_n (8/20) μs (Core-Earth)	350 A
Total surge current (8/20) μs	350 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Core)	350 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	350 A
Output voltage limitation at 1 kV/ μs (Core-Core) spike	$\leq 20 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 20 V$
Output voltage limitation at 1 kV/ μs (Core-Core) static	$\leq 14 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 14 V$
Output voltage limitation (10/700) μs (Core-Core)	$\leq 15 V$ ($U_o=4 kV$)
Output voltage limitation (10/700) μs (Core-Earth)	$\leq 15 V$ ($U_o=4 kV$)
Residual voltage at I_n , (conductor-conductor)	$\leq 25 V$
Residual voltage at I_n , (conductor-ground)	$\leq 25 V$
Voltage protection level U_p (Core-Core)	$\leq 25 V$ (C1 (500 V/250 A))
Voltage protection level U_p (Core-Core)	$\leq 15 V$ (C3 (25 A))
Voltage protection level U_p (Core-Core)	$\leq 15 V$ (B2 (4 kV/100 A))
Voltage protection level U_p (Core-Earth)	$\leq 25 V$ (C1 (500 V/250 A))
Voltage protection level U_p (Core-Earth)	$\leq 15 V$ (C3 (25 A))
Voltage protection level U_p (Core-Earth)	$\leq 15 V$ (B2 (4 kV/100 A))
Response time t_A (Core-Core)	$\leq 500 ns$
Response time t_A (Core-Earth)	$\leq 500 ns$
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	typ. 70 MHz
Inductivity in series	0.11 μH
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (500 V / 250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C3 (2 kV/25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (500 A/250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (2 kV/25 A)

Connection data

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Technical data

Connection data

Connection method	Screw connection & D-SUB-9
Connection type IN	Screw terminal blocks
Connection type OUT	D-SUB-9 connector
Connection method	2-wire (shielded)
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	5 mm
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	16

Connection, equipotential bonding

Connection method	PVC Litz wire, 1.0 mm ² , 0.5 m length
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Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/regulations	DIN EN 61643-21

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
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

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approvals

GOST / UL Listed / GOST /

Approval details

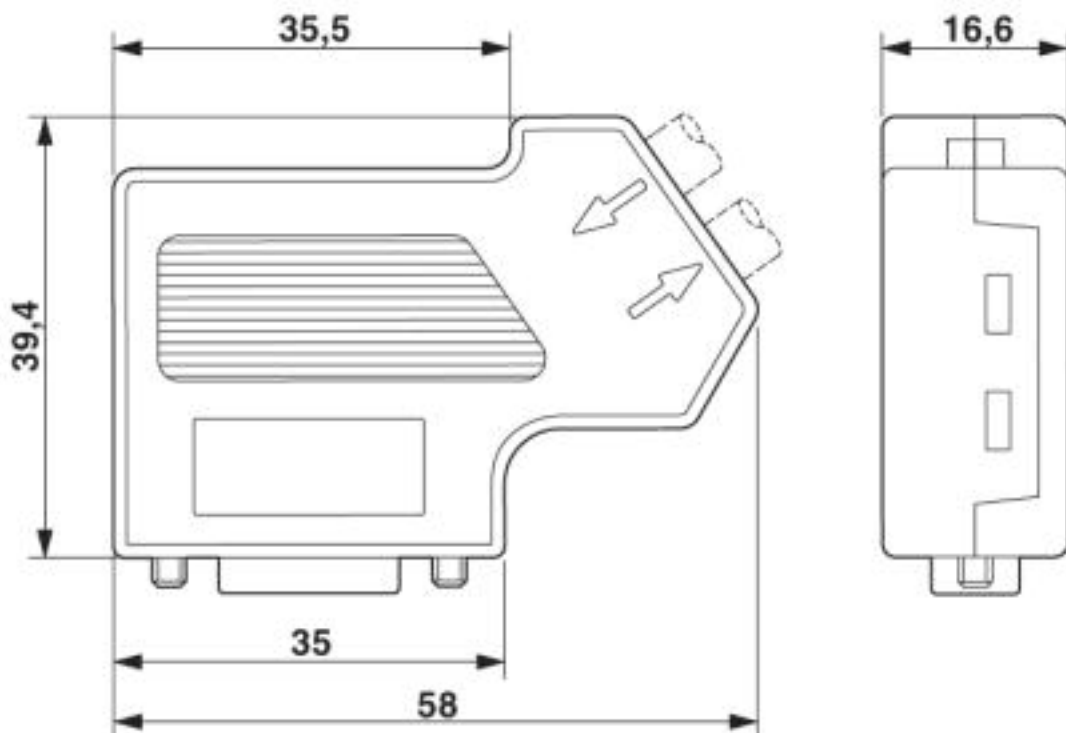
GOST 

UL Listed 



Drawings

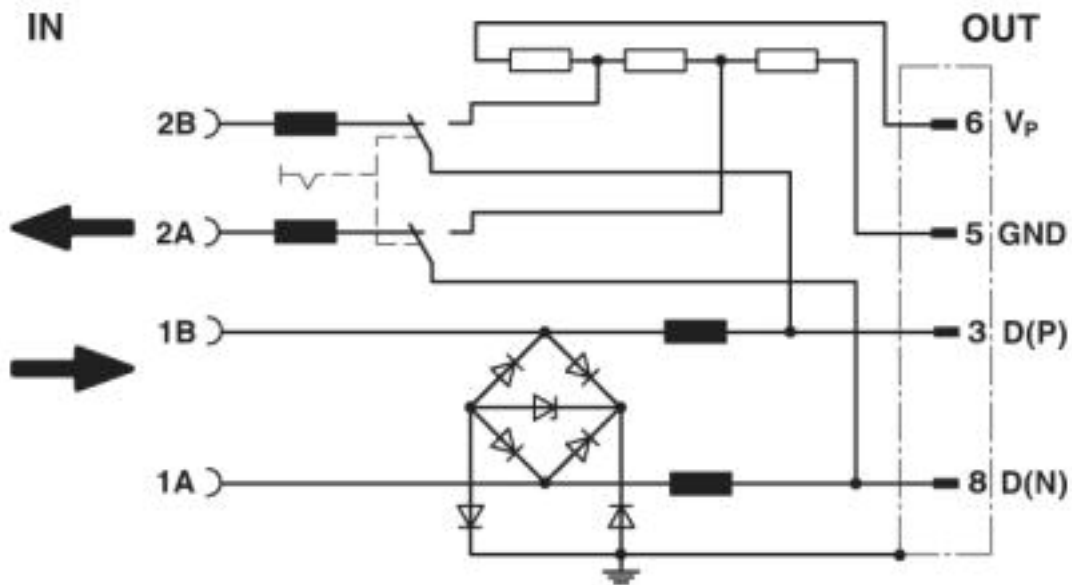
Dimensioned drawing



Dimensional drawing: D-UFB-PB

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Circuit diagram



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