

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.



Your advantages

- ✓ Space saving with use directly at the interface
- ✓ Can be in applications up to 12Mbps with adapted protective circuit
- ✓ Adjustment of the transmission properties with switchable termination resistor



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 048989
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 clearances and creepage distances	IEC 60664-1
	DIN VDE 0110-1

Surge protection device - D-UFB-PB - 2880642

Technical data

General

Overvoltage category	II
Degree of pollution	2
Mounting type	Direct assembly on the device interface
Type	Connecting plug
Number of positions	4
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C3
	B2
VDE requirement class	C1
	C3
	B2
Maximum continuous voltage U_C	5.2 V DC
Rated current	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 (line-line)	350 A
Nominal discharge current I_n (8/20) μs (line-earth)	350 A
Total discharge current I_{total} (8/20) μs	350 A
Max. discharge current I_{max} (8/20) μs maximum (line-line)	350 A
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	350 A
Output voltage limitation at 1 kV/ μs (line-line) spike	$\leq 20 V$
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 20 V$
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 14 V$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 14 V$
Output voltage limitation (10/700) μs (line-line)	$\leq 15 V$ ($U_o=4 kV$)
Output voltage limitation (10/700) μs (line-earth)	$\leq 15 V$ ($U_o=4 kV$)
Residual voltage at I_n (line-line)	$\leq 25 V$
Residual voltage at I_n (line-earth)	$\leq 25 V$
Voltage protection level U_p (line-line)	$\leq 25 V$ (C1 - 500 V / 250 A)
	$\leq 15 V$ (C3 - 25 A)
	$\leq 15 V$ (B2 - 4 kV / 100 A)
Voltage protection level U_p (line-earth)	$\leq 25 V$ (C1 - 500 V / 250 A)
	$\leq 15 V$ (C3 - 25 A)
	$\leq 15 V$ (B2 - 4 kV / 100 A)
Response time t_A (line-line)	$\leq 500 ns$
Response time t_A (line-earth)	$\leq 500 ns$
Cut-off frequency f_g (3 dB), sym. in 100 Ω system	typ. 70 MHz

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Protective circuit

Inductivity in series	0.11 μ H
Surge protection fault message	none
Impulse durability (line-line)	C1 - 500 V / 250 A
	C3 - 2 kV / 25 A
Impulse durability (line-earth)	C1 - 500 V / 250 A
	C3 - 2 kV/25 A

Connection data

Connection method	Screw connection & D-SUB-9
Connection method IN	Screw terminal blocks
Connection method OUT	D-SUB-9 connector
Connection technology	2-conductor (shielded)
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	5 mm
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	26 ... 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
	DIN EN 61643-21
Standards/specifications	IEC 61643-21

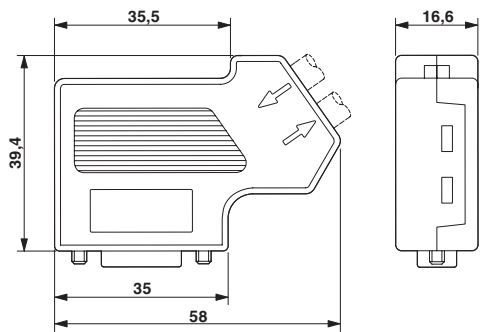
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

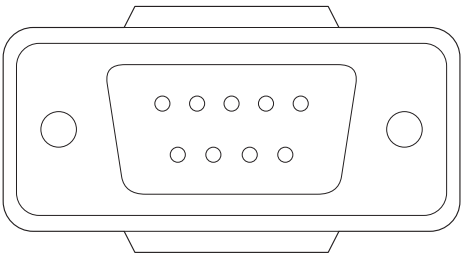
Drawings

Surge protection device - D-UFB-PB - 2880642

Dimensional drawing

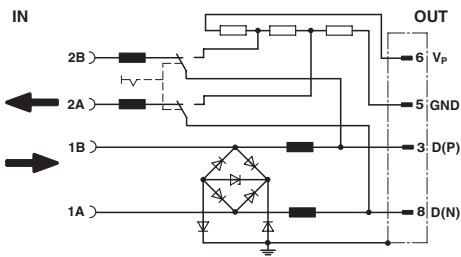


Product drawing



Dimensional drawing: D-UFB-PB

Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 11.0	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

Surge protection device - D-UFB-PB - 2880642

Classifications

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121600

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