

D-UFB-V11/SB-B - Surge protection device



2796118

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Attachment plug with surge protection for V.11 interface. Connection: D-SUB-15 male plug/female plug, installation in lines.

The figure shows version D-UFB-V11/BS-S

Commercial data

Item number	2796118
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL03
Product key	CL3113
GTIN	4017918073305
Weight per piece (including packing)	109.1 g
Weight per piece (excluding packing)	1.18 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

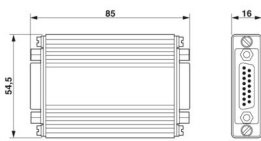
Product properties

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Type	Intermediate plug

Connection data

Connection method	D-SUB-15
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Dimensions

Dimensional drawing	
Width	24.5 mm
Height	54.5 mm
Length	84.6 mm

Material specifications

Housing material	Aluminum
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Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Maximum continuous voltage U_C (line-line)	12 V DC
Maximum continuous voltage U_C (line-signal ground)	12 V DC
Nominal current I_N	175 mA (25 °C)
Operating effective current I_C at U_C	$\leq 10 \mu A$
Protective conductor current I_{PE}	$\leq 4 \mu A$
Nominal discharge current I_n (8/20) μs (line-line)	5 kA
Nominal discharge current I_n (8/20) μs (line-ground)	5 kA

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Nominal discharge current I_n (8/20) μ s (line-signal ground)	5 kA
Total surge current (8/20) μ s	10 kA
Output voltage limitation at 1 kV/ μ s (line-line) spike	≤ 22 V
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 600 V
Output voltage limitation at 1 kV/ μ s (line-line) static	≤ 22 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 600 V
Output voltage limitation at 1 kV/ μ s (line-signal ground) static	≤ 22 V
Residual voltage at I_n (conductor-conductor)	≤ 17 V
Residual voltage at I_n (line-signal ground)	≤ 33 V
Voltage protection level U_p (line-line)	≤ 25 V (C2 - 4 kV / 2 kA)
	≤ 30 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-earth)	≤ 700 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-signal ground)	≤ 30 V (C2 - 4 kV / 2 kA)
Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-earth)	≤ 100 ns
Response time t_A (line-signal ground)	≤ 1 ns
Input attenuation aE, sym.	3.2 dB (≤ 1 MHz)
	0.4 dB (≤ 600 kHz)
Input attenuation aE, asym.	1.7 dB (≤ 1 MHz)
	0.1 dB (≤ 600 kHz)
Cut-off frequency f_g (3 dB), sym. in 50 Ω system	typ. 5 MHz
Cut-off frequency f_g (3 dB), sym. in 600 Ω system	typ. 500 kHz
Cut-off frequency f_g (3 dB), asym. (PE) in 50 Ω system	typ. 5 MHz
Cut-off frequency f_g (3 dB), asym. (PE) in 600 Ω system	typ. 500 kHz
Resistance per path	22 Ω
Impulse durability (line-line)	C2 - 10 kV / 5 kA
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 60 °C

Standards and regulations

VDE requirement class	C1
	C2
	C3
	D1

Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

Air clearances and creepage distances

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Standards/regulations	VDE 0110-1 / IEC 60664-1
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Mounting

Mounting type	Connection-specific intermediate plugging
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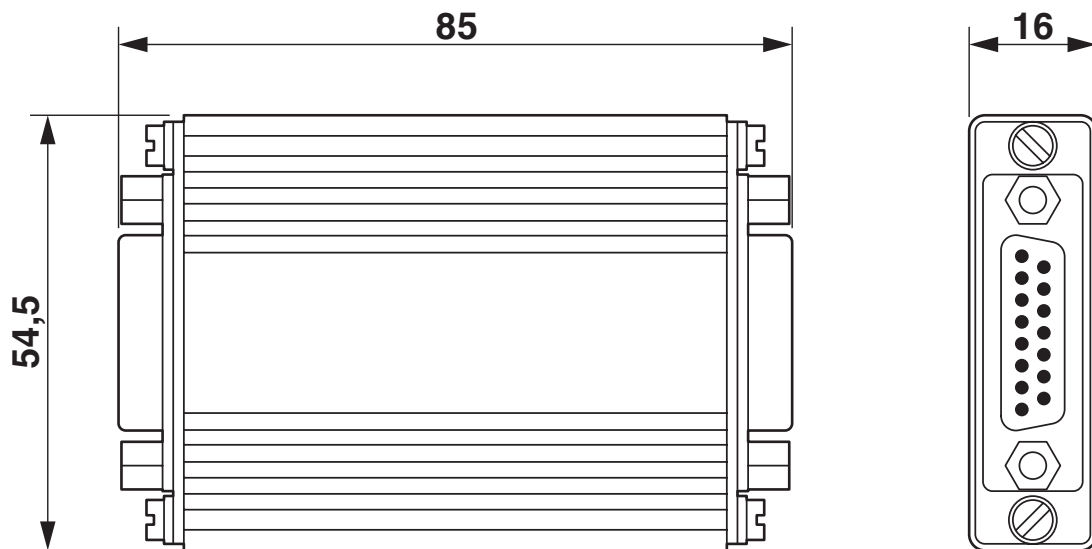
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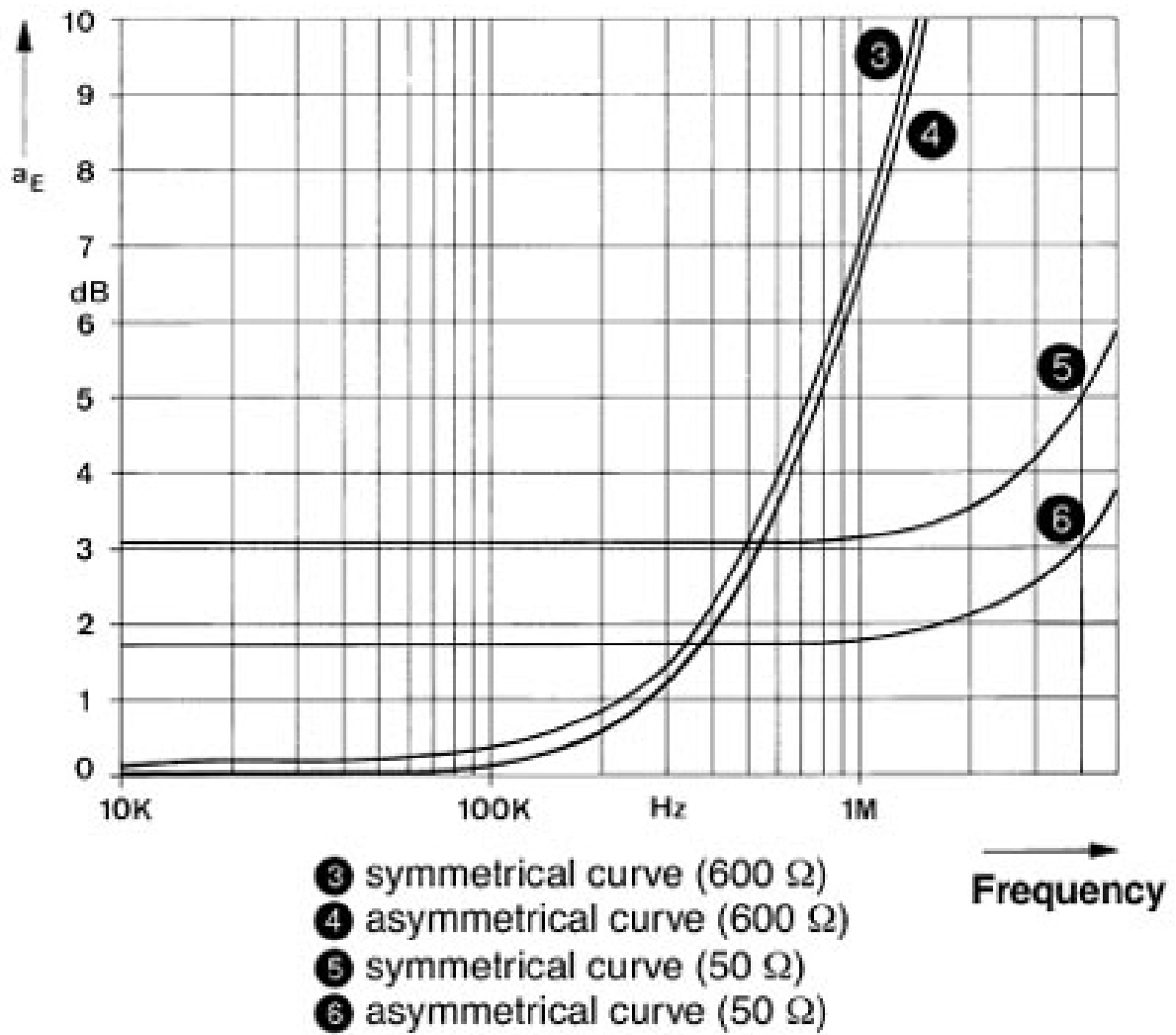


Drawings

Dimensional drawing



Diagram



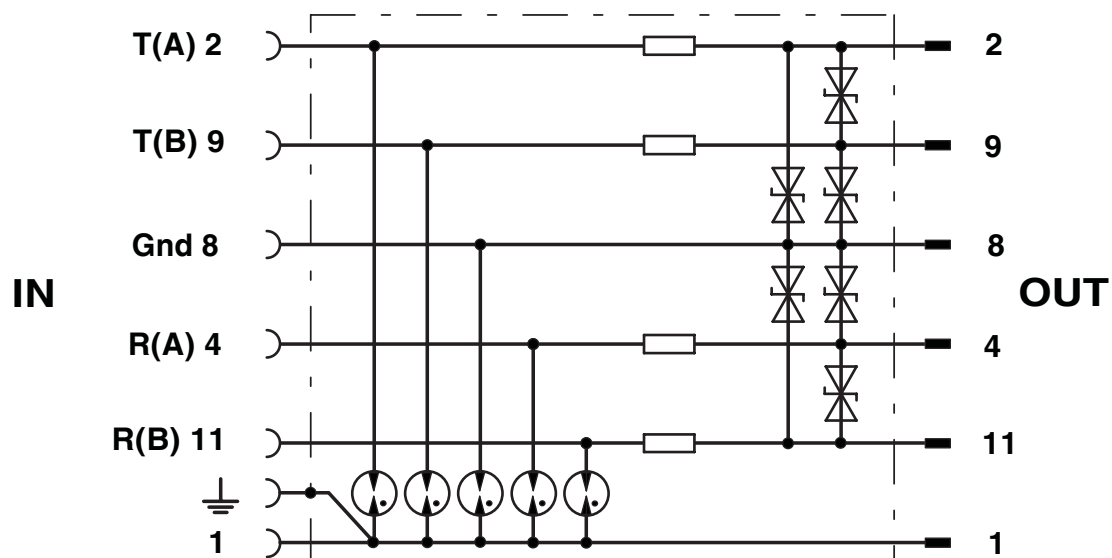
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Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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