

D-UFB-V24/8-SB-B - Surge protection device

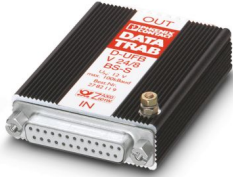


2782096

<https://www.phoenixcontact.com/us/products/2782096>

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Attachment plug with surge voltage fine protection for V.24 interface with handshake.
Connection: D-SUB-25 male/female plug, for installation in lines



The figure shows version D-UFB-V24/SB-S

Commercial data

Item number	2782096
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL03
Product key	CL3113
GTIN	4017918069339
Weight per piece (including packing)	101 g
Weight per piece (excluding packing)	84.29 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

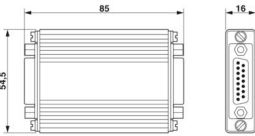
Product properties

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

Connection data

Connection method	D-SUB 25
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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 operating voltage U_C	15 V DC
Maximum continuous voltage U_C (line-signal ground)	15 V DC
Nominal current I_N	1 A (60 °C)
Operating effective current I_C at U_C	$\leq 5 \mu A$
Protective conductor current I_{PE}	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (line-line)	300 A
Nominal discharge current I_n (8/20) μs (line-ground)	300 A
Nominal discharge current I_n (8/20) μs (line-signal ground)	300 A
Nominal discharge current I_n (8/20) μs (signal ground-earth)	5 kA
Total surge current (8/20) μs	5 kA
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	300 A

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Nominal pulse current I_{an} (10/1000) μ s (line-earth)	59 A
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 600 V
Output voltage limitation at 1 kV/ μ s (line-signal ground) spike	≤ 22 V
Output voltage limitation at 1 kV/ μ s (line-shield) spike	≤ 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 (line-signal ground)	≤ 28 V
Residual voltage with I_{an} (10/1000) μ s (line-signal ground)	≤ 25 V
Voltage protection level U_p (line-earth)	≤ 600 V
Voltage protection level U_p (line-signal ground)	≤ 28 V
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, asym.	0.1 dB (≤ 700 kHz)
	0.1 dB (≤ 50 kHz)
Cut-off frequency f_g (3 dB), asym. (signal ground) in 50 Ω system	typ. 4 MHz
Cut-off frequency f_g (3 dB), asym. (signal ground) in 600 Ω system	typ. 300 kHz
Impulse durability (line-line)	C1 - 500 V / 250 A
Impulse durability (line-earth)	C1 - 500 V / 250 A
	C3 - 25 A

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
	C3

Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

Air clearances and creepage distances

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

Mounting type	Connection-specific intermediate plugging
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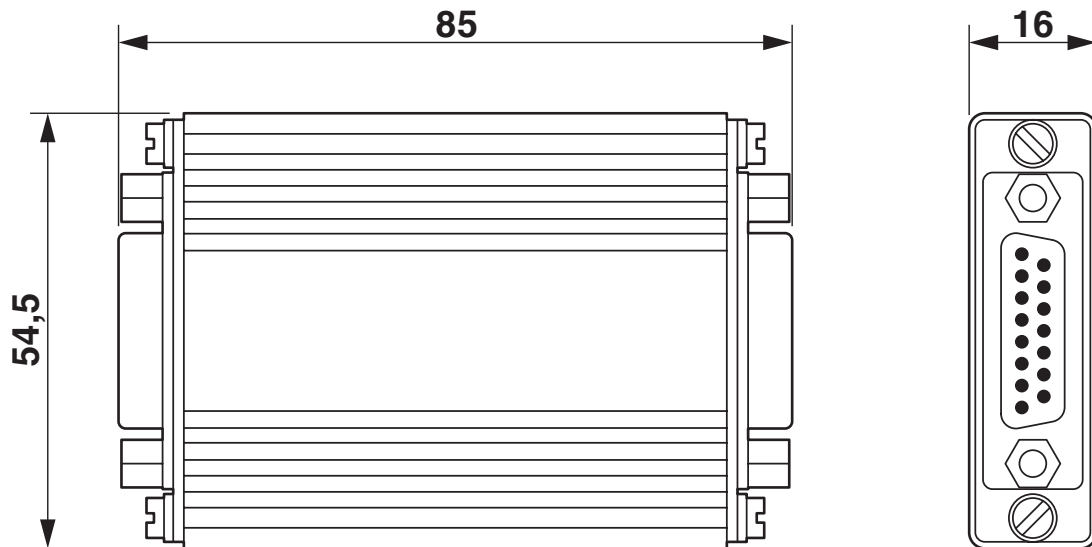
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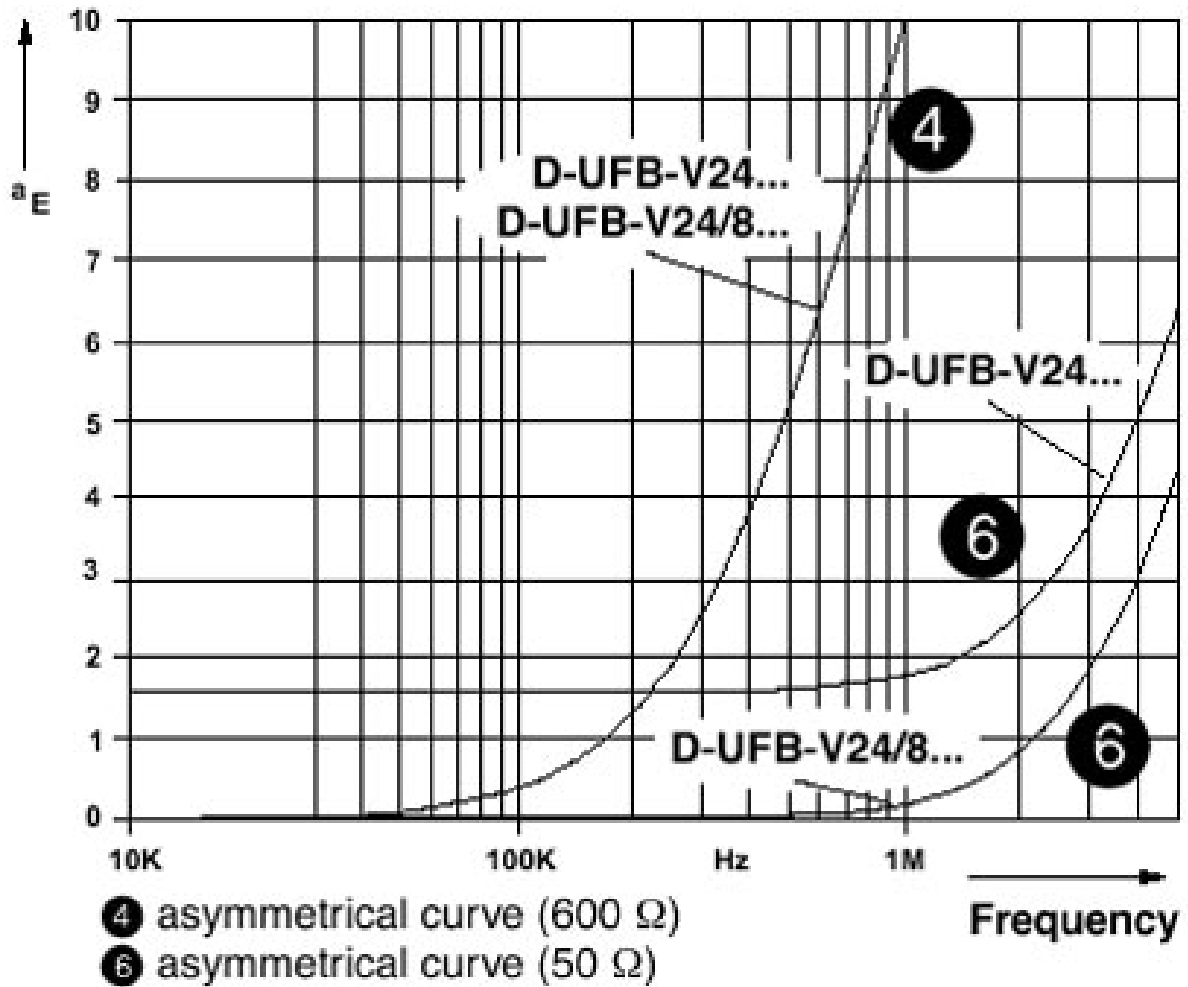


Drawings

Dimensional drawing



Diagram



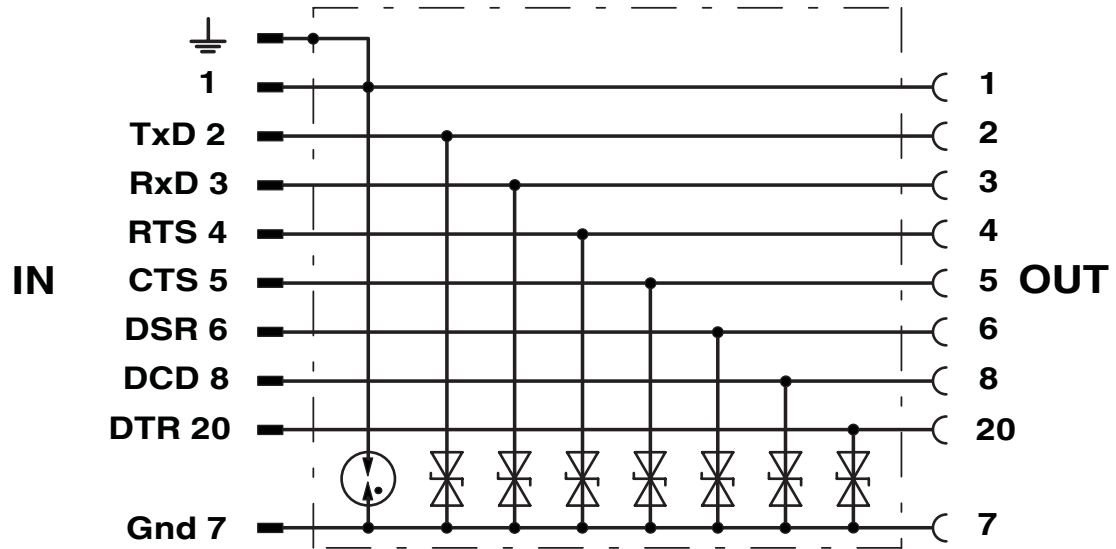
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Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com