

# D-UFB-V24/8-BS-B - Surge protection device

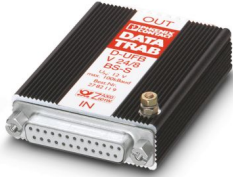


2782106

<https://www.phoenixcontact.com/us/products/2782106>

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



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

## Commercial data

Item number	2782106
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL03
Product key	CL3113
GTIN	4017918069346
Weight per piece (including packing)	101.9 g
Weight per piece (excluding packing)	101.9 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

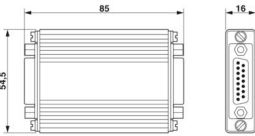
### Product properties

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 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) $\mu s$ (line-line)	300 A
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)	300 A
Nominal discharge current $I_n$ (8/20) $\mu s$ (signal ground-earth)	5 kA
Total surge current (8/20) $\mu s$	5 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-earth)	300 A
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (line-earth)	59 A
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) spike	$\leq 600 V$

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Output voltage limitation at 1 kV/ $\mu$ s (line-signal ground) spike	$\leq 22$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-shield) spike	$\leq 22$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq 600$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-signal ground) static	$\leq 22$ V
Residual voltage at $I_n$ (line-signal ground)	$\leq 28$ V
Residual voltage with $I_{an}$ (10/1000) $\mu$ s (line-signal ground)	$\leq 25$ V
Voltage protection level $U_p$ (line-earth)	$\leq 600$ V
Voltage protection level $U_p$ (line-signal ground)	$\leq 28$ V
Response time $t_A$ (line-line)	$\leq 1$ ns
Response time $t_A$ (line-earth)	$\leq 100$ ns
Response time $t_A$ (line-signal ground)	$\leq 1$ ns
Input attenuation aE, asym.	0.1 dB ( $\leq 700$ kHz) 0.1 dB ( $\leq 50$ kHz)
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 50 $\Omega$ system	typ. 4 MHz
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 600 $\Omega$ 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
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### Standards Information technology specification

Standards/regulations	IEC 61643-21 IEC 61643-21
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### 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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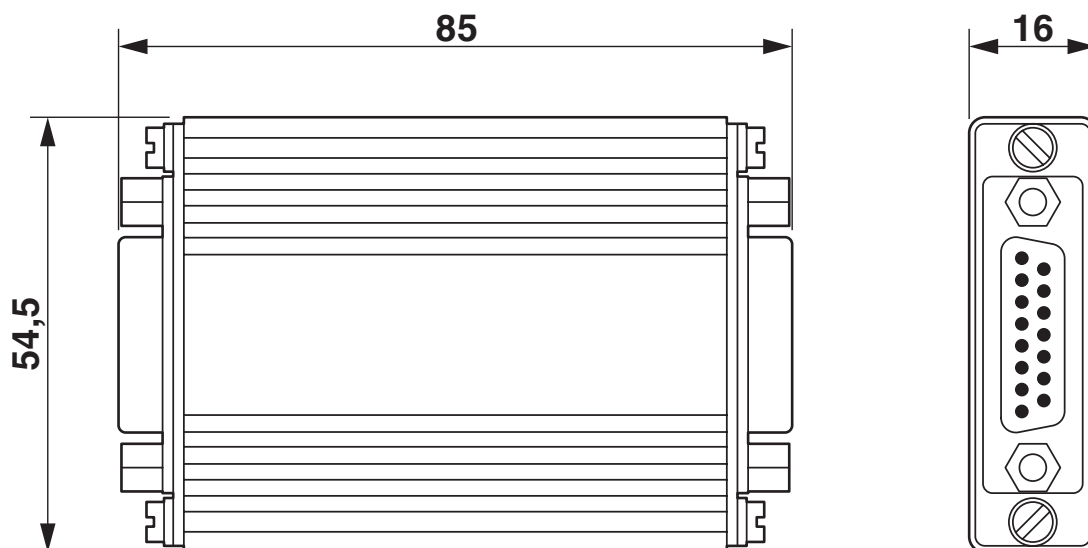
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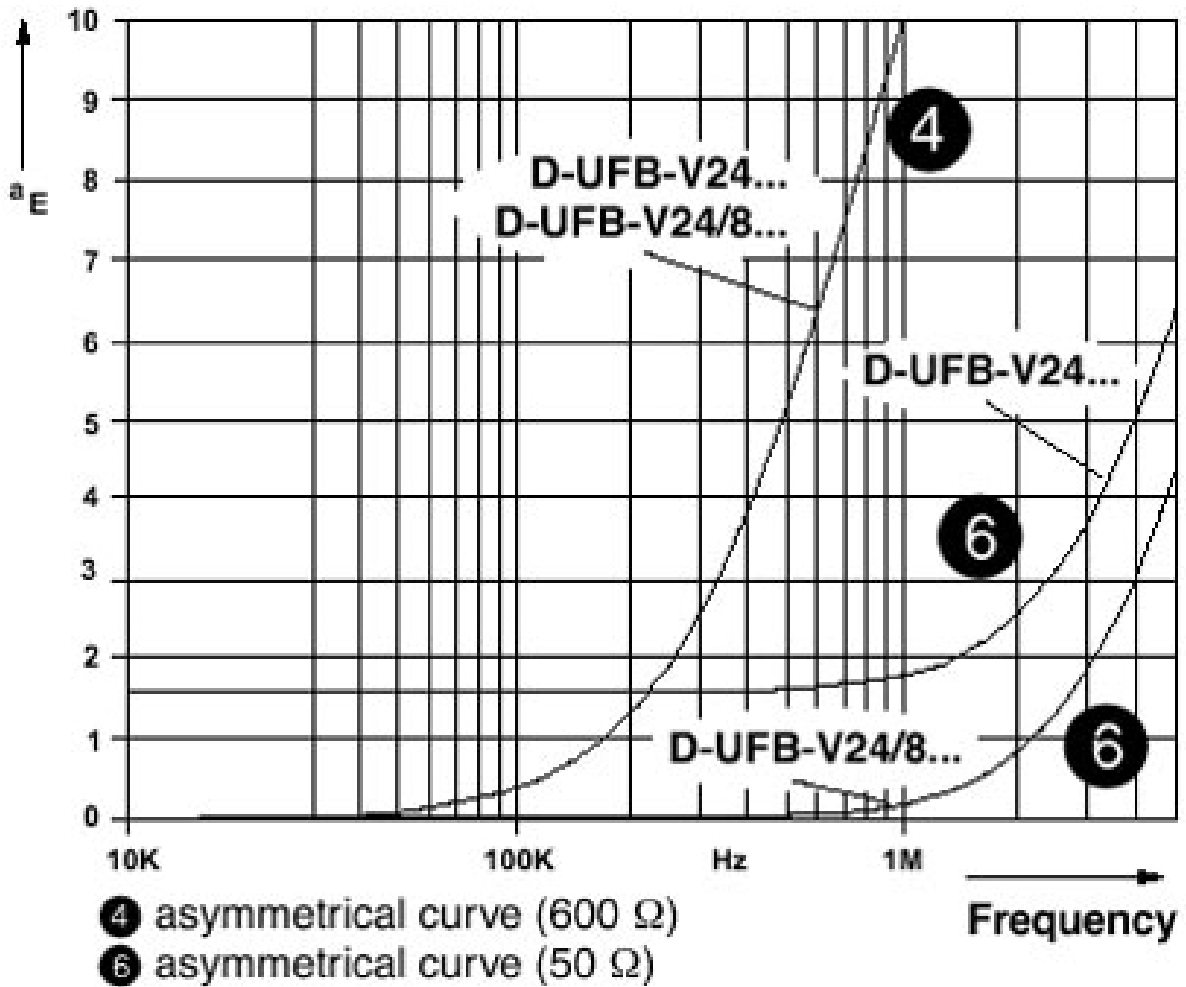


## Drawings

Dimensional drawing



Diagram



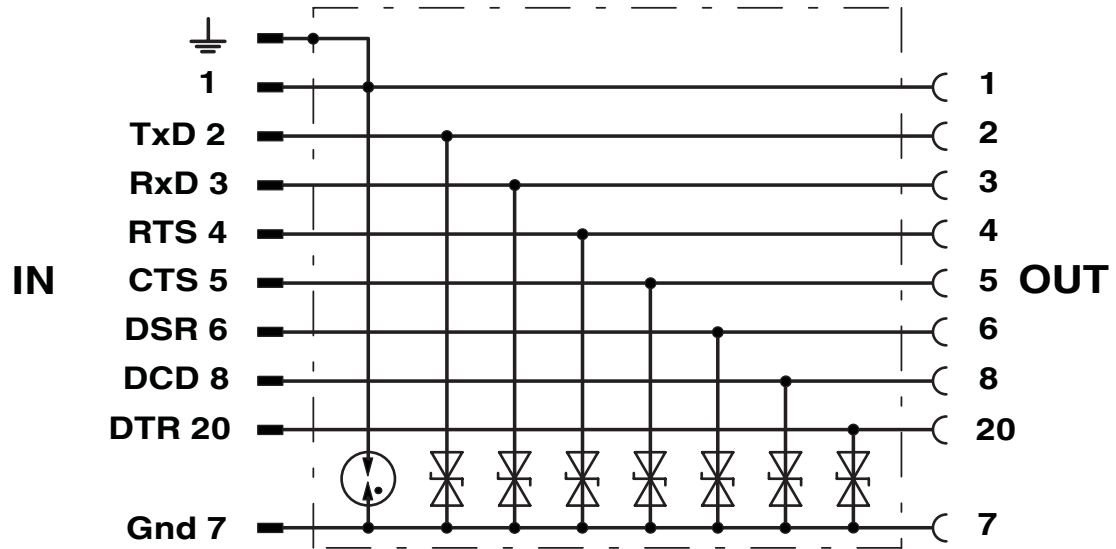
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Circuit diagram



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## Environmental product compliance

EU REACH SVHC

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