

# D-UFB-V11/BS-S - Surge protection device

2796147

<https://www.phoenixcontact.com/us/products/2796147>

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Attachment plug with surge protection for V.11 interface. Connection: D-SUB-15 socket/plug, for direct assembly on the device interface



## Commercial data

Item number	2796147
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL03
Product key	CL3113
GTIN	4017918073336
Weight per piece (including packing)	114.2 g
Weight per piece (excluding packing)	100.2 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

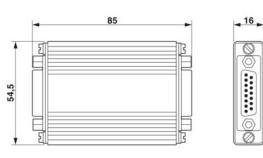
### Product properties

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) $\mu s$ (line-line)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)	5 kA

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Nominal discharge current $I_n$ (8/20) $\mu$ s (line-signal ground)	5 kA
Total surge current (8/20) $\mu$ s	10 kA
Output voltage limitation at 1 kV/ $\mu$ s (line-line) spike	$\leq 22$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike	$\leq 600$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-line) static	$\leq 22$ 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 $I_n$ (conductor-conductor)	$\leq 17$ V
Residual voltage at $I_n$ (line-signal ground)	$\leq 33$ V
Voltage protection level $U_p$ (line-line)	$\leq 25$ V (C2 - 4 kV / 2 kA)
	$\leq 30$ V (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (line-earth)	$\leq 700$ V (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (line-signal ground)	$\leq 30$ V (C2 - 4 kV / 2 kA)
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, sym.	3.2 dB ( $\leq 1$ MHz)
	0.4 dB ( $\leq 600$ kHz)
Input attenuation aE, asym.	1.7 dB ( $\leq 1$ MHz)
	0.1 dB ( $\leq 600$ kHz)
Cut-off frequency $f_g$ (3 dB), sym. in 50 $\Omega$ system	typ. 5 MHz
Cut-off frequency $f_g$ (3 dB), sym. in 600 $\Omega$ system	typ. 500 kHz
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 50 $\Omega$ system	typ. 5 MHz
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 600 $\Omega$ system	typ. 500 kHz
Resistance per path	22 $\Omega$
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
Standards/specifications	IEC 61643-21
Note	2000

## Mounting

Mounting type	Connection-specific intermediate plugging
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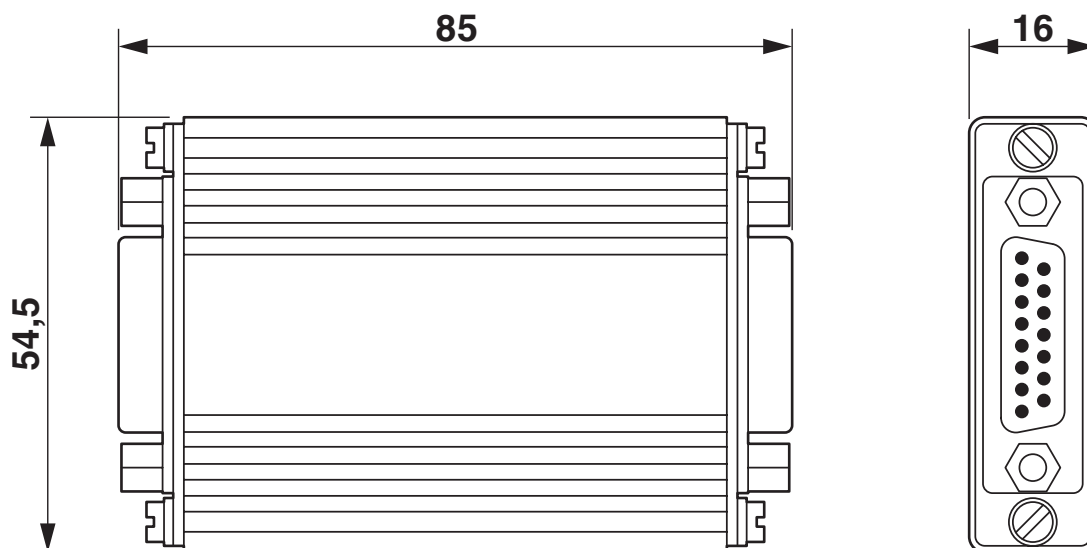
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## Drawings

Dimensional drawing



Diagram



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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