

# DT-UFB-V24/S-9-SB - Surge protection device



2803069

<https://www.phoenixcontact.com/us/products/2803069>

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Attachment plug with surge protection for V.24 interface. Connection: D-SUB-9 plug/socket, installation in lines

## Your advantages

- Easy network integration via D-SUB connection
- No signal interference with adapted protective circuit
- Can be installed in a control cabinet by removing the ground connection adapter

## Commercial data

Item number	2803069
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL24
Product key	CL3112
GTIN	4046356312974
Weight per piece (including packing)	325 g
Weight per piece (excluding packing)	300.55 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Product properties

Product type	Surge protection for information technology
Product family	DATATRAB
IEC test classification	B2
	C1
	C2
	C3
VDE requirement class	B2
	C1
	C2
	C3
Type	Attachment plug for DIN rail mounting
Number of positions	9

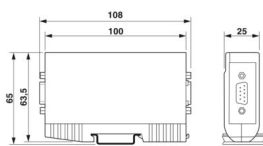
### Insulation characteristics

Overvoltage category	II
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### Connection data

Connection method	D-SUB-9
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### Dimensions

Dimensional drawing	
Width	25 mm
Height	102 mm
Depth	63.5 mm

### Material specifications

Color	silver-colored
	black (RAL 9005)
Housing material	Die-cast zinc

### Mechanical properties

#### Mechanical data

Open side panel	No
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### Protective circuit

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Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Maximum continuous operating voltage $U_C$	15 V DC
	10 V AC
Rated current	$\leq 1$ A (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 5$ $\mu$ A (per wire)
Protective conductor current $I_{PE}$	$\leq 1$ $\mu$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-line)	$\leq 250$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-ground)	$\leq 250$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-signal ground)	$\leq 250$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (signal ground-earth)	$\leq 5$ kA
Total discharge current $I_{Total}$ (8/20) $\mu$ s	5 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-line)	50 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-earth)	50 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-signal ground)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-line)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-earth)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-signal ground)	50 A
Output voltage limitation at 1 kV/ $\mu$ s (line-line) static	$\leq 50$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-signal ground) static	$\leq 30$ V
Residual voltage at $I_n$ (conductor-conductor)	$\leq 55$ V
Residual voltage at $I_n$ (line-signal ground)	$\leq 30$ V
Voltage protection level $U_p$ (line-line)	$\leq 55$ V (C1 - 250 A)
	$\leq 55$ V (B2 - 25 A)
Voltage protection level $U_p$ (line-earth)	$\leq 450$ V (C1 - 250 A)
	$\leq 400$ V (B2 - 25 A)
Voltage protection level $U_p$ (line-signal ground)	$\leq 30$ V (C1 - 250 A)
	$\leq 30$ V (B2 - 25 A)
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
Response time $t_A$ (shield-ground)	$\leq 100$ ns
Input attenuation aE, sym.	typ. 0.3 dB ( $\leq 700$ kHz / 100 $\Omega$ )
	typ. 0.3 dB ( $\leq 700$ kHz/150 $\Omega$ )
Input attenuation aE, asym.	typ. 0.3 dB ( $\leq 400$ kHz / 100 $\Omega$ )
	typ. 0.3 dB ( $\leq 400$ kHz / 150 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), sym. in 100 $\Omega$ system	typ. 2.5 MHz
Cut-off frequency $f_g$ (3 dB), sym. in 150 $\Omega$ system	typ. 2.5 MHz
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 100 $\Omega$ system	typ. 1.3 MHz
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 150 $\Omega$ system	typ. 1.3 MHz
Capacity (Core-Core)	typ. 1 nF (f=1 MHz / $V_R=0$ V)
Capacitance (line-signal ground)	typ. 2 nF (f=1 MHz / $V_R=0$ V)
Surge protection fault message	none

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Impulse durability (line-line)	B2 - 1 kV / 25 A
	C1 - 500 V / 250 A
Impulse durability (line-signal ground)	B2 - 1 kV/25 A
	C1 - 500 V/250 A
Impulse durability (signal ground-earth)	B2 - 4 kV / 100 A
	C1 - 100 V / 500 A
	C2 - 10 kV/5 kA
Alternating current carrying capacity (signal ground-earth)	5 A - 1 s

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

## Standards and regulations

VDE requirement class	B2
	C1
	C2
	C3

### Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

### Air clearances and creepage distances

Standards/regulations	IEC 60664-1 / VDE 0110-1
Standards/specifications	DIN EN 61643-21
Note	2002
Standards/specifications	IEC 61643-21
Note	2000

## Mounting

Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
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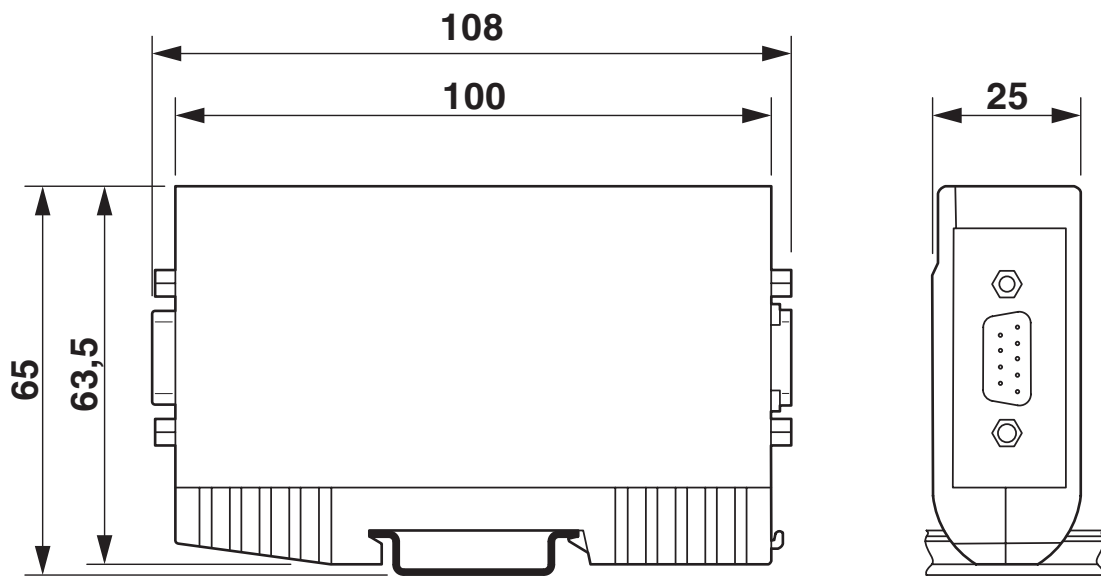


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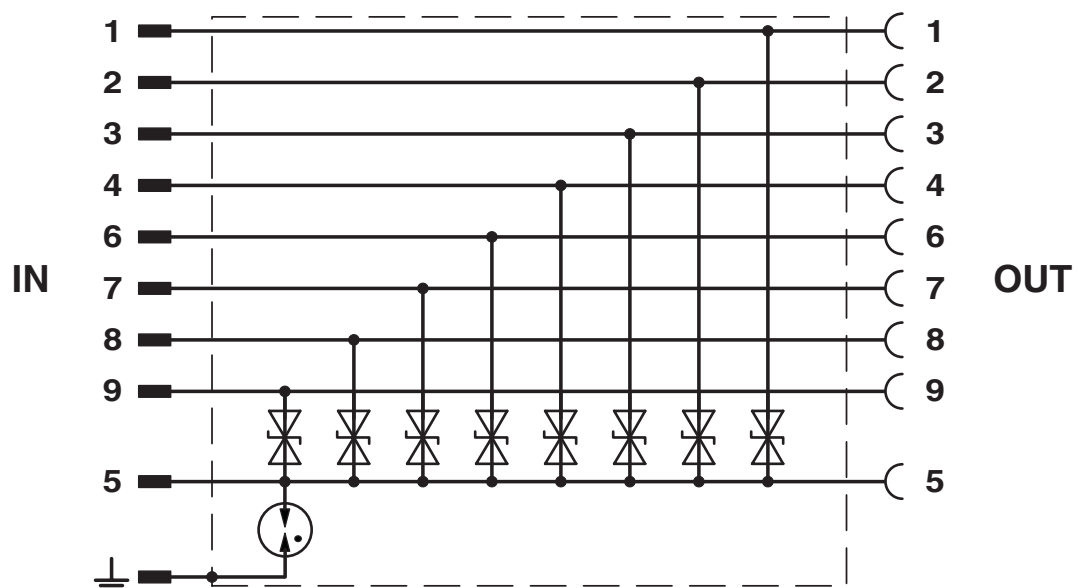
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## Drawings

Dimensional drawing



Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171503
ECLASS-15.0	27171503

### ETIM

ETIM 10.0	EC001625
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)-I, 6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	066ac1d1-68df-419d-95a1-d8d21f19cc80

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