

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

- Connection: 9-pos. D-SUB and 25-pos. D-SUB
- For data and handshake cables



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 312974
GTIN	4046356312974

### Technical data

#### Dimensions

Height	102 mm
Width	25 mm
Depth	63.5 mm

#### Ambient conditions

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

#### General

Housing material	Zinc die-cast
Color	silver/black
Standards for clearances and creepage distances	IEC 60664-1
	VDE 0110-1
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Type	Attachment plug for DIN rail mounting

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## Technical data

### General

Number of positions	9
Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground

### Protective circuit

IEC test classification	B2
	C1
	C2
	C3
VDE requirement class	B2
	C1
	C2
	C3
Maximum continuous 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)
Residual 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-earth)	$\leq 250$ 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 (signalground-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-signalground)	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-signalground)	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-signalground) static	$\leq 30$ V
Residual voltage at $I_n$ (line-line)	$\leq 55$ V
Residual voltage at $I_n$ (line-signalground)	$\leq 30$ 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-signalground)	$\leq 30$ V (C1 - 250 A)
	$\leq 30$ V (B2 - 25 A)
Response time $t_A$ (line-line)	$\leq 1$ ns
Response time $t_A$ (line-signalground)	$\leq 1$ ns

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## Technical data

### Protective circuit

Response time $t_A$ (line-earth)	$\leq 100$ ns
Response time $t_A$ (shield-earth)	$\leq 100$ 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 Ohm system	typ. 2.5 MHz
Cut-off frequency $f_g$ (3 dB), sym. in 150 Ohm system	typ. 2.5 MHz
Cut-off frequency $f_g$ (3 dB), asym. (GND) in 100 Ohm system	typ. 1.3 MHz
Cut-off frequency $f_g$ (3 dB), asym. (GND) in 150 Ohm system	typ. 1.3 MHz
Capacity (line-line)	typ. 1 nF ( $f=1$ MHz / $V_R=0$ V)
Capacity (line-signalground)	typ. 2 nF ( $f=1$ MHz / $V_R=0$ V)
Surge protection fault message	none
Impulse durability (line-line)	B2 - 1 kV / 25 A
	C1 - 500 V / 250 A
Impulse durability (line-signalground)	B2 - 1 kV/25 A
	C1 - 500 V/250 A
Impulse durability (signalground-earth)	B2 - 4 kV / 100 A
	C1 - 100 V / 500 A
	C2 - 10 kV/5 kA
Alternating current carrying capacity (signalground-earth)	5 A - 1 s

### Connection data

Connection method	D-SUB-9
Connection method IN	D-SUB-9 plug
Connection method OUT	D-SUB-9 socket

### Connection, equipotential bonding

Connection method	Cable connection/DIN rail
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### Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/specifications	DIN EN 61643-21 2002
	IEC 61643-21 2000

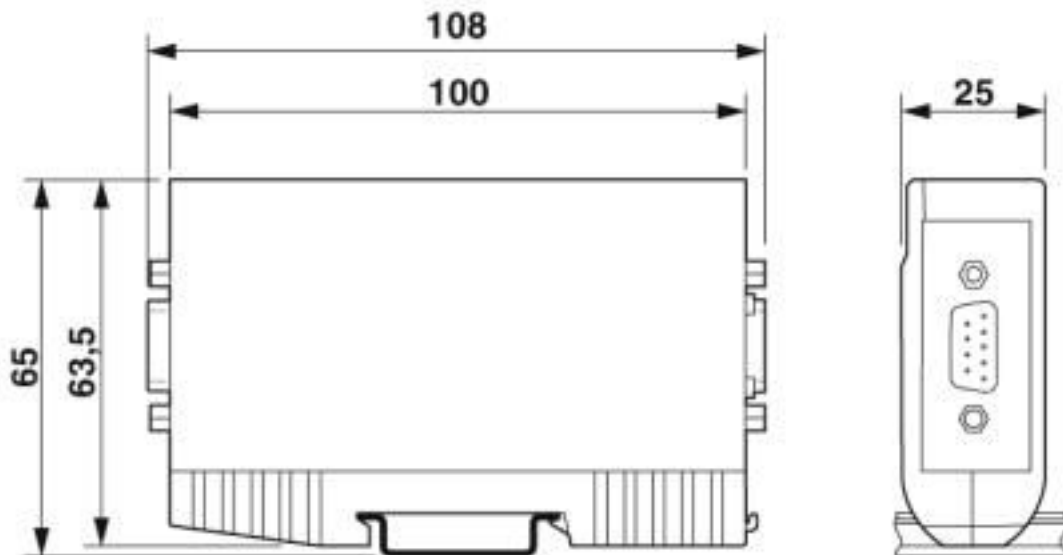
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

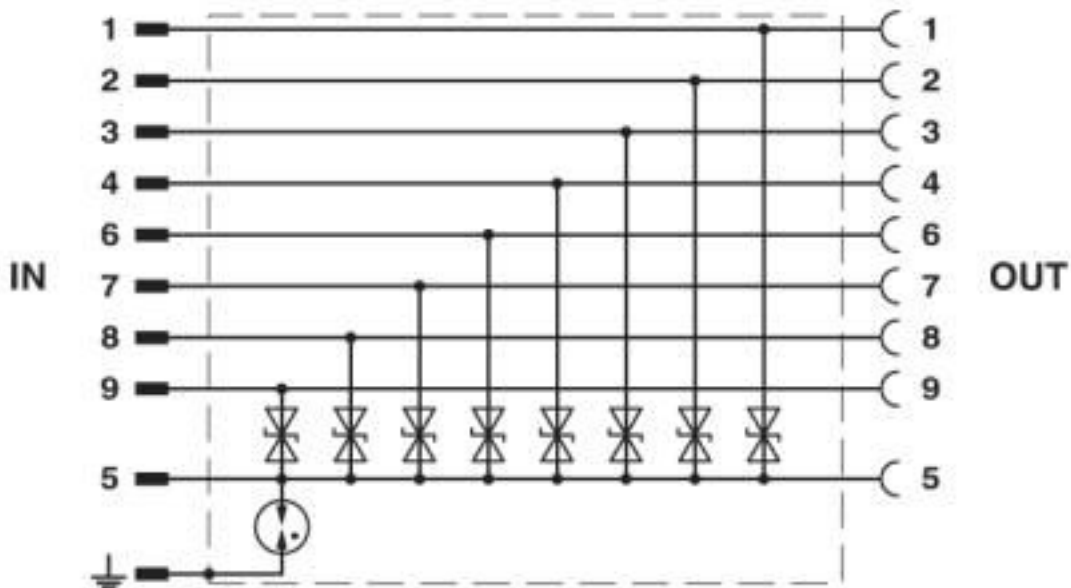
## Drawings

# Surge protection device - DT-UFB-V24/S-9-SB - 2803069

Dimensional drawing



Circuit diagram



## Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800

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## Classifications

### eCl@ss

eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

## Approvals

### Approvals

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Approvals

EAC / EAC

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Ex Approvals

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### Approval details

EAC		EAC-Zulassung
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### Approvals

EAC



RU C-  
DE.\*09.B.00169

### Accessories

#### Accessories

##### Data plug

D-SUB cable - VS-09-DSUB-20-LI-1,0 - 1656233



Assembled D-SUB cable, shielded, 9-pos., stranded (7-wire), cable color: RAL 7000 (gray), secured using 4-40 UNC thread, IP20 protection, head 1 with socket shell 1 and straight cable outlet, head 2 with pin shell 1 and straight cable outlet, length: 1 m

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