

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

### Product Features

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



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	340.0 g
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	108 mm
Width	25 mm
Depth	63 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

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

### Technical data

#### General

Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Type	Attachment plug for DIN rail mounting
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
Maximum continuous voltage $U_C$ (wire-GND)	15 V DC
	10 V AC
Nominal current $I_N$	$\leq 1$ 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 (Core-Core)	$\leq 250$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Earth)	$\leq 250$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-GND)	$\leq 250$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (GND-Ground)	$\leq 5$ kA
Total surge current (8/20) $\mu$ s	5 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Core)	50 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Earth)	50 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-GND)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Core)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Earth)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-GND)	50 A
Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static	$\leq 50$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-GND) static	$\leq 30$ V
Residual voltage at $I_n$ (conductor-conductor)	$\leq 55$ V
Residual voltage at $I_n$ (conductor-GND)	$\leq 30$ V

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

### Technical data

#### Protective circuit

Voltage protection level $U_p$ (core-core)	$\leq 55$ V (B2 - 25 A)
	$\leq 55$ V (C1 - 250 A)
Voltage protection level $U_p$ (core-ground)	$\leq 400$ V (B2 - 25 A)
	$\leq 450$ V (C1 - 250 A)
Voltage protection level $U_p$ (core-GND)	$\leq 30$ V (C1 - 250 A)
	$\leq 30$ V (B2 - 25 A)
Response time $t_A$ (Core-Core)	$\leq 1$ ns
Response time $t_A$ (Core-Earth)	$\leq 1$ ns
	$\leq 100$ ns
Response time $t_A$ (Shield-Earth)	$\leq 100$ ns
Input attenuation $a_E$ , sym.	typ. 0.3 dB ( $\leq 700$ kHz / 100 $\Omega$ )
	typ. 0.3 dB ( $\leq 700$ kHz / 150 $\Omega$ )
Input attenuation $a_E$ , 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 (Core-Core)	typ. 1 nF ( $f=1$ MHz / $V_R=0$ V)
Capacity (Core-GND)	typ. 2 nF ( $f=1$ MHz / $V_R=0$ V)
Impulse durability (conductor-conductor)	B2 (1 kV/25 A)
	C1 - 500 V / 250 A
Impulse durability (conductor-GND)	B2 - 1 kV/25 A
	C1 - 500 V/250 A
Impulse durability (GND-Ground)	B2 (4 kV/100 A)
	C1 (100 V/500 A)
	C2 (10 kV/5 kA)
Alternating current carrying capacity (GND-Ground)	5 A - 1 s

#### Connection data

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

#### Connection, equipotential bonding

Connection method	Cable connection/DIN rail
-------------------	---------------------------

#### Standards and Regulations

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

## Technical data

### Standards and Regulations

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

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
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

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

---

Approvals

EAC / EAC

---

Ex Approvals

---

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

## Approvals

Approvals submitted

---

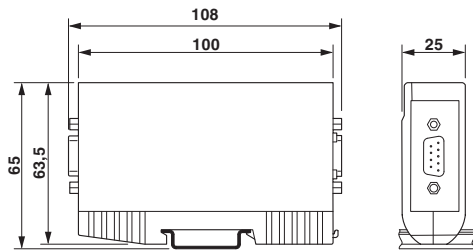
### Approval details

EAC

EAC

## Drawings

Dimensional drawing



Circuit diagram

