

## Surge protection device - DT-UFB-V24/S-SB-SET - 2803072

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Attachment plug with surge protection for V.24 interface. Connection: D-SUB-25 male plug/female plug, installation in lines



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	43.63 GRM
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	110 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 air 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
Number of positions	25

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## Technical data

### General

Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
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### Protective circuit

IEC test classification	B2
	C1
	C2
	C3
VDE requirement class	B2
	C1
	C2
	C3
Maximum continuous operating 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
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
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-Earth)	$\leq 400$ V (B2 - 25 A)
	$\leq 450$ V (C1 - 250 A)

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### Technical data

#### Protective circuit

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)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (1 kV/25 A)
	C1 - 500 V / 250 A
Surge carrying capacity in acc. with IEC 61643-21 (Core-GND)	B2 (1 kV/25 A)
	C1 (500 V/250 A)

#### Connection data

Connection method	D-SUB-25
Connection type IN	D-SUB-25 plug
Connection type OUT	D-SUB-25 socket

#### Connection, equipotential bonding

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

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

##### eCl@ss

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

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### Classifications

#### eCl@ss

eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	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

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Approvals

GOST / GOST

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Ex Approvals

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Approvals submitted

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#### Approval details

GOST 
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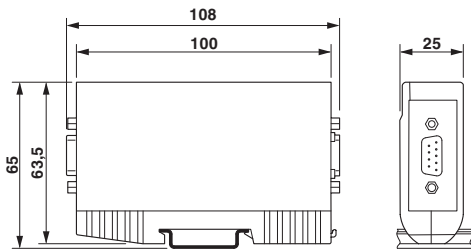
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## Approvals



## Drawings

Dimensioned drawing



Circuit diagram

