

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

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	≤ 1 A (25 °C)
Operating effective current I_C at U_C	≤ 5 μ A (per wire)
Residual current I_{PE}	≤ 1 μ A
Nominal discharge current I_n (8/20) μ s (Core-Core)	≤ 250 A
Nominal discharge current I_n (8/20) μ s (Core-Earth)	≤ 250 A
Nominal discharge current I_n (8/20) μ s (Core-GND)	≤ 250 A
Nominal discharge current I_n (8/20) μ s (GND-Ground)	≤ 5 kA
Total surge current (8/20) μ s	5 kA
Nominal pulse current I_{an} (10/1000) μ s (Core-Core)	50 A
Nominal pulse current I_{an} (10/1000) μ s (Core-Earth)	50 A
Nominal pulse current I_{an} (10/1000) μ s (Core-GND)	50 A
Nominal pulse current I_{an} (10/700) μ s (Core-Core)	50 A
Nominal pulse current I_{an} (10/700) μ s (Core-Earth)	50 A
Nominal pulse current I_{an} (10/700) μ s (Core-GND)	50 A
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 50 V
Output voltage limitation at 1 kV/ μ s (Core-GND) static	≤ 30 V
Residual voltage at I_n (conductor-conductor)	≤ 55 V
Residual voltage at I_n (conductor-GND)	≤ 30 V

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

Technical data

Protective circuit

Voltage protection level U_p (core-core)	≤ 55 V (B2 - 25 A)
	≤ 55 V (C1 - 250 A)
Voltage protection level U_p (core-ground)	≤ 400 V (B2 - 25 A)
	≤ 450 V (C1 - 250 A)
Voltage protection level U_p (core-GND)	≤ 30 V (C1 - 250 A)
	≤ 30 V (B2 - 25 A)
Response time t_A (Core-Core)	≤ 1 ns
Response time t_A (Core-Earth)	≤ 1 ns
	≤ 100 ns
Response time t_A (Shield-Earth)	≤ 100 ns
Input attenuation a_E , sym.	typ. 0.3 dB (≤ 700 kHz / 100 Ω)
	typ. 0.3 dB (≤ 700 kHz / 150 Ω)
Input attenuation a_E , asym.	typ. 0.3 dB (≤ 400 kHz / 100 Ω)
	typ. 0.3 dB (≤ 400 kHz / 150 Ω)
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
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Standards and Regulations

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

Technical data

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
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

Accessories

Accessories

Data cable preassembled

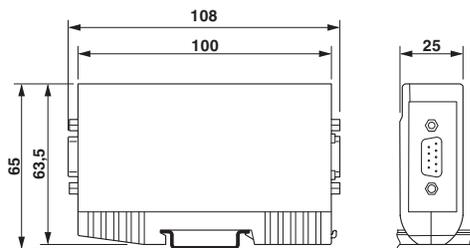
D-SUB cable - VS-09-DSUB-20-LI-1,0 - 1656233



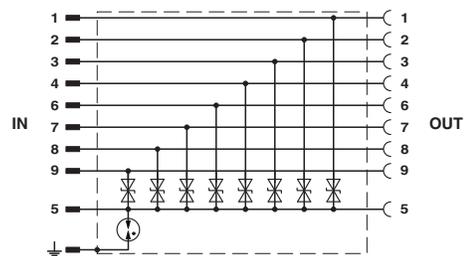
Assembled D-SUB cable, shielded, 9-pos., stranded (7-wire), cable color: RAL 7000 (gray), secured using 4-40 UNC thread, IP20 protection, head 1 with socket shell 1 and straight cable outlet, head 2 with pin shell 1 and straight cable outlet, length: 1 m

Drawings

Dimensional drawing



Circuit diagram



Mouser Electronics

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