

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	≤ 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 (line-line)	≤ 250 A
Nominal discharge current I_n (8/20) μ s (line-earth)	≤ 250 A
Nominal discharge current I_n (8/20) μ s (line-signal ground)	≤ 250 A
Nominal discharge current I_n (8/20) μ s (signalground-earth)	≤ 5 kA
Total discharge current I_{total} (8/20) μ s	5 kA
Nominal pulse current I_{an} (10/1000) μ s (line-line)	50 A
Nominal pulse current I_{an} (10/1000) μ s (line-earth)	50 A
Nominal pulse current I_{an} (10/1000) μ s (line-signalground)	50 A
Nominal pulse current I_{an} (10/700) μ s (line-line)	50 A
Nominal pulse current I_{an} (10/700) μ s (line-earth)	50 A
Nominal pulse current I_{an} (10/700) μ s (line-signalground)	50 A
Output voltage limitation at 1 kV/ μ s (line-line) static	≤ 50 V
Output voltage limitation at 1 kV/ μ s (line-signalground) static	≤ 30 V
Residual voltage at I_n (line-line)	≤ 55 V
Residual voltage at I_n (line-signalground)	≤ 30 V
Voltage protection level U_p (line-line)	≤ 55 V (C1 - 250 A)
	≤ 55 V (B2 - 25 A)
Voltage protection level U_p (line-earth)	≤ 450 V (C1 - 250 A)
	≤ 400 V (B2 - 25 A)
Voltage protection level U_p (line-signalground)	≤ 30 V (C1 - 250 A)
	≤ 30 V (B2 - 25 A)
Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-signalground)	≤ 1 ns

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Technical data

Protective circuit

Response time t_A (line-earth)	≤ 100 ns
Response time t_A (shield-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 700 kHz / 100Ω)
	typ. 0.3 dB (≤ 700 kHz / 150Ω)
Input attenuation aE, asym.	typ. 0.3 dB (≤ 400 kHz / 100Ω)
	typ. 0.3 dB (≤ 400 kHz / 150Ω)
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

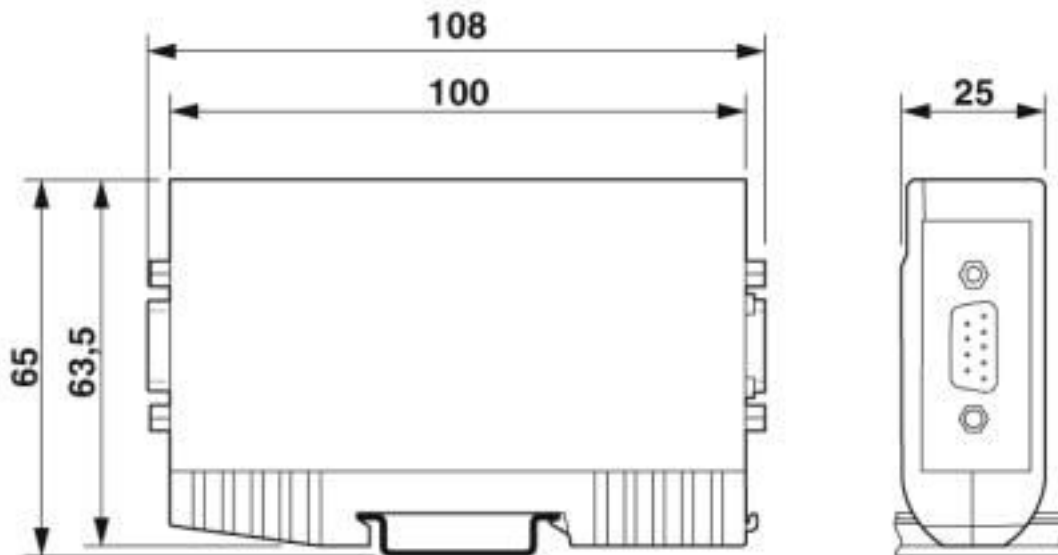
Environmental Product Compliance

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"

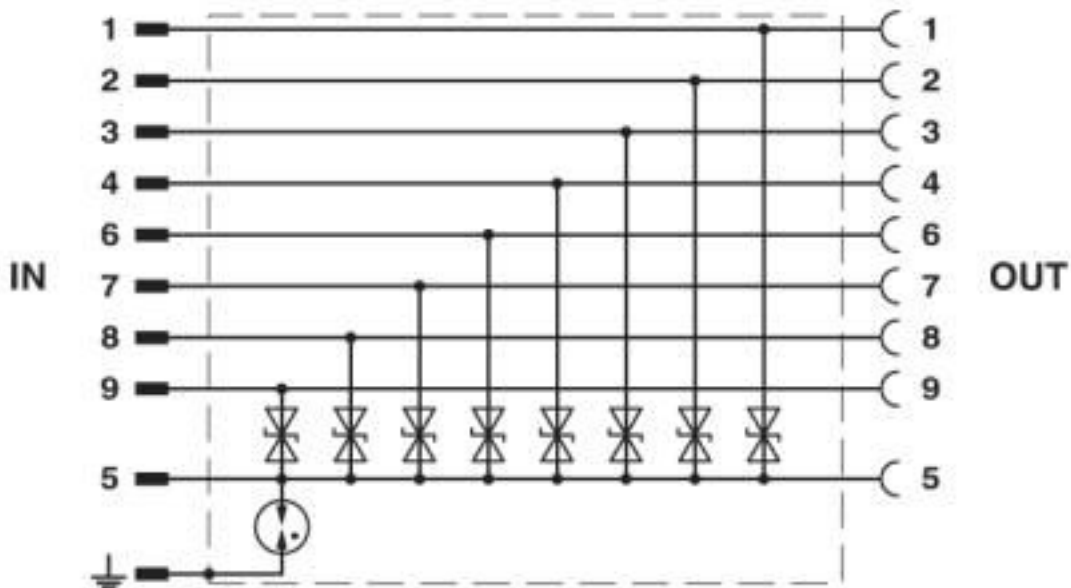
Drawings

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

Approvals

EAC / EAC

Ex Approvals

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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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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