

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

package_quantity	1
GTIN	4046356312974

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
Standards for air and creepage distances	VDE 0110-1
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Design	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
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Technical data

Protective circuit

IEC test classification	C1
IEC test classification	C2
IEC test classification	C3
VDE requirement class	B2
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
Maximum continuous operating voltage U_c	15 V DC
Maximum continuous operating voltage U_c	10 V AC
Maximum continuous voltage U_c (wire-GND)	15 V DC
Maximum continuous voltage U_c (wire-GND)	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
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
Voltage protection level U_p (Core-Core)	≤ 55 V (B2 - 25 A)
Voltage protection level U_p (Core-Core)	≤ 55 V (C1 - 250 A)
Voltage protection level U_p (Core-Earth)	≤ 400 V (B2 - 25 A)
Voltage protection level U_p (Core-Earth)	≤ 450 V (C1 - 250 A)
Voltage protection level U_p (Core-GND)	≤ 30 V (C1 - 250 A)
Voltage protection level U_p (Core-GND)	≤ 30 V (B2 - 25 A)
Response time t_A (Core-Core)	≤ 1 ns
Response time t_A (Core-Earth)	≤ 1 ns
Response time t_A (Core-Earth)	≤ 100 ns
Response time t_A (Shield-Earth)	≤ 100 ns
Input attenuation a_E , sym.	typ. 0.3 dB (≤ 700 kHz / 100 Ω)
Input attenuation a_E , sym.	typ. 0.3 dB (≤ 700 kHz / 150 Ω)

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Protective circuit

Input attenuation aE, asym.	typ. 0.3 dB (≤ 400 kHz / 100 Ω)
Input attenuation aE, asym.	typ. 0.3 dB (≤ 400 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	typ. 2.5 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 2.5 MHz
Cut-off frequency fg (3 dB), asym. (GND) in 100 Ohm system	typ. 1.3 MHz
Cut-off frequency fg (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)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (500 V / 250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-GND)	B2 (1 kV/25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-GND)	C1 (500 V/250 A)

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

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

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

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classifications

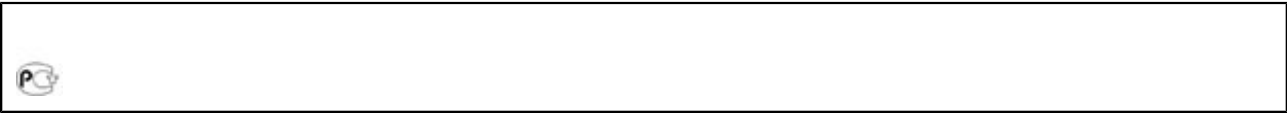
UNSPSC

UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

approvals

GOST / GOST /

Approval details



accessories

Data cable preassembled

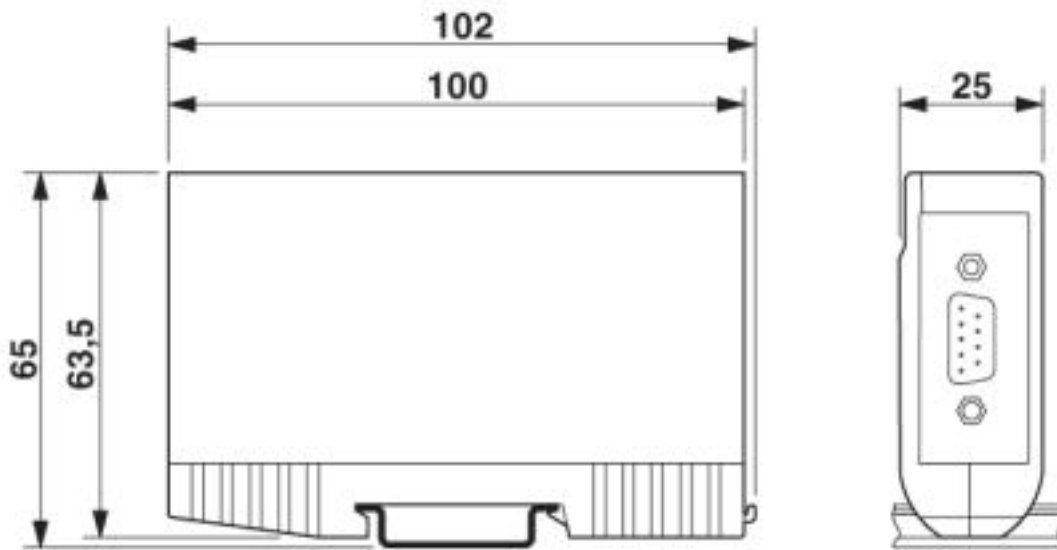
VS-09-DSUB-20-LI-1,0 - 1656233



Drawings

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Dimensioned drawing



Circuit diagram

