

DT-UFB-485/BS - Surge protection device



2920612

<https://www.phoenixcontact.com/no/products/2920612>

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9-pos. D-SUB attachment plug with surge protection for RS-485 interfaces. Can alternatively be snapped onto DIN rails.

Your advantages

- Easy network integration via D-SUB connection
- No signal interference with adapted protective circuit
- Can be installed in a control cabinet by removing the ground connection adapter

Commercial data

Item number	2920612
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	31BCL
Product key	CL3112
Catalog page	Page 173 (C-4-2019)
GTIN	4046356155120
Weight per piece (including packing)	333.9 g
Weight per piece (excluding packing)	305.2 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Type	Attachment plug for DIN rail mounting
Product type	Surge protection for information technology
Product family	DATATRAB
Number of positions	5
Wire pairs per module	2

Insulation characteristics

Overvoltage category	II
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Connection data

Connection method	D-SUB-9
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Dimensions

Dimensional drawing	
Width	25 mm
Height	108 mm
Depth	63 mm

Material specifications

Color	Silver
	black (RAL 9005)
Housing material	Zinc die-cast

Mechanical properties

Mechanical data

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Open side panel	No
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Protective circuit

Direction of action	Line-Line & Line-Ground/Shield
Maximum continuous voltage U_C	12 V DC
Rated current	≤ 380 mA (25 °C)
Operating effective current I_C at U_C	≤ 1 μ A
Residual current I_{PE}	≤ 5 μ A
Nominal discharge current I_n (8/20) μ s (line-line)	≤ 5 kA
Nominal discharge current I_n (8/20) μ s (line-ground)	≤ 5 kA
Total discharge current I_{total} (8/20) μ s	10 kA
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 700 V
Output voltage limitation at 1 kV/ μ s (line-line) static	≤ 25 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 700 V
Output voltage limitation at 1 kV/ μ s (line-signalground) static	≤ 25 V
Residual voltage at I_n (conductor-conductor)	≤ 25 V
Residual voltage at I_n (conductor-ground)	≤ 55 V
Residual voltage at I_n (line-signalground)	≤ 25 V
Voltage protection level U_p (line-line)	≤ 30 V (B2 - 100 A)
	≤ 30 V (C1 - 500 A)
	≤ 40 V (C2 - 5 kA)
Voltage protection level U_p (line-earth)	≤ 700 V (B2 - 100 A)
	≤ 700 V (C1 - 500 A)
	≤ 750 V (C2 - 5 kA)
Response time t_A (line-line)	≤ 100 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 30 MHz)
	typ. 0.3 dB (≤ 7 MHz / 150 Ω)
	typ. 0.3 dB (≤ 2 MHz / 600 Ω)
Cut-off frequency f_g (3 dB), sym. in 100 Ω system	typ. 50 MHz
Resistance per path	3.3 Ω 10 %
Surge protection fault message	none
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	B2 - 4 kV / 100 A
Impulse durability (line-earth)	B2 - 4 kV / 100 A
	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	D1 - 1 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

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Standards and regulations

VDE requirement class	B2
	C1
	C2
	C3
	D1

Air clearances and creepage distances

Standards/regulations	IEC 60664-1 / VDE 0110-1
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Standards Information technology specification

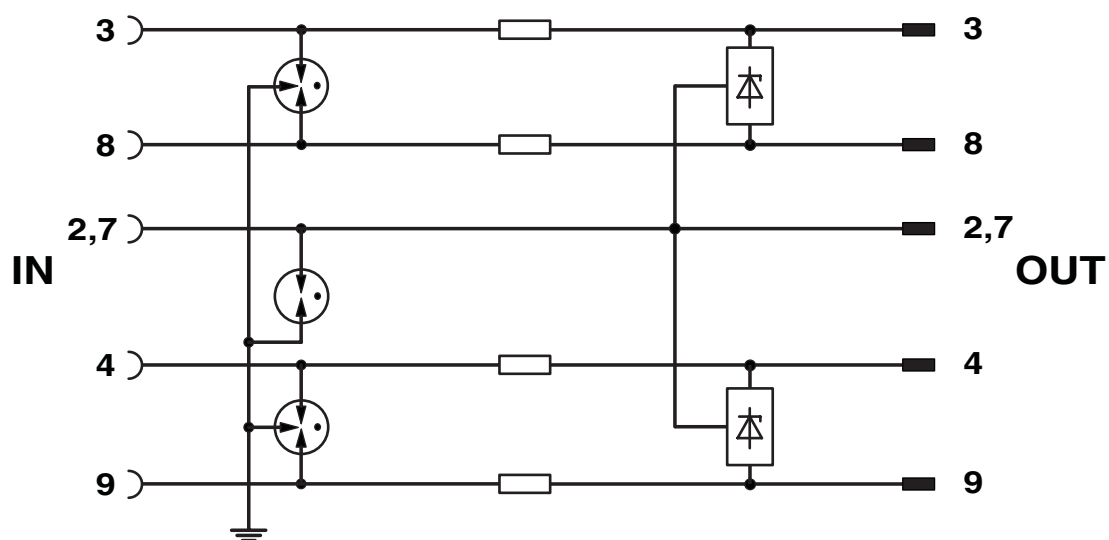
Standards/regulations	IEC 61643-21
	DIN EN 61643-21
	IEC 61643-21
	DIN EN 61643-21
Standards/specifications	DIN EN 61643-21
Note	2002

Mounting

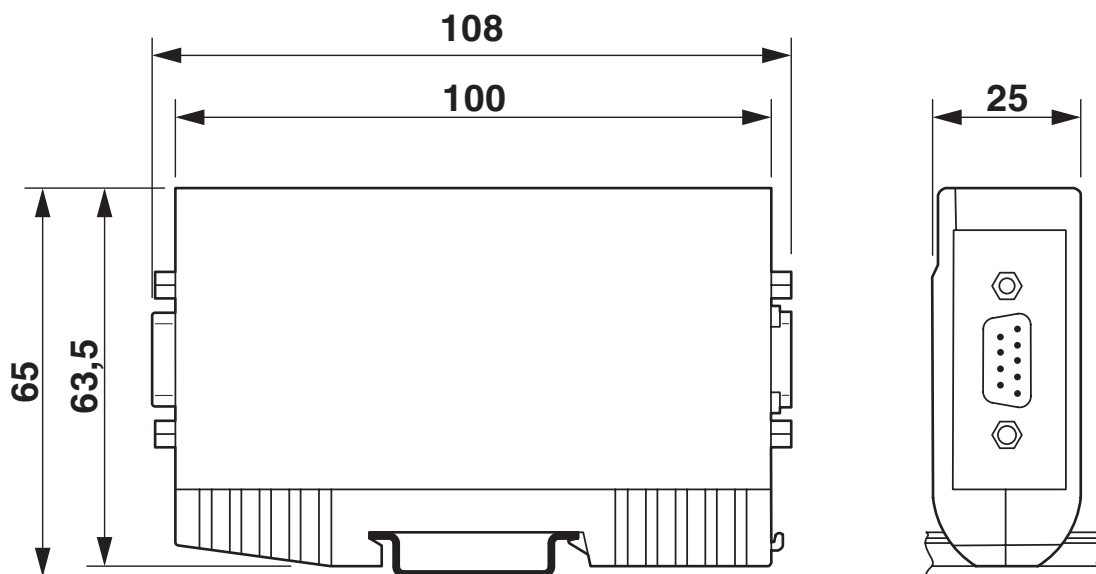
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
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Drawings

Circuit diagram



Dimensional drawing



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Approvals

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EAC

Approval ID: EAC-Zulassung



EAC

Approval ID: RU C-DE.*09.B.00169

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171503

ETIM

ETIM 9.0	EC001466
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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