

Surge protection device - DT-UFB-485/BS - 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.

Product Features

- Adapter type
- 9-pos. D-SUB connection
- DIN rail mounting possible by removing the cap



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	334.1 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

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Technical data

General

	VDE 0110-1
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Type	Attachment plug for DIN rail mounting
Number of positions	5
Direction of action	Line-Line & Line-Ground/Shield

Protective circuit

IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Maximum continuous voltage U_C	12 V DC
Maximum continuous voltage U_C (wire-wire)	12 V DC
Maximum continuous voltage U_C (wire-ground)	90 V DC
Nominal current I_N	≤ 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 (Core-Core)	≤ 5 kA
Nominal discharge current I_n (8/20) μ s (Core-Earth)	≤ 5 kA
Total surge current (8/20) μ s	10 kA
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 700 V
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 25 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 700 V
Output voltage limitation at 1 kV/ μ s (Core-GND) 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 (conductor-GND)	≤ 25 V
Voltage protection level U_p (core-core)	≤ 30 V (B2 - 100 A)
	≤ 30 V (C1 - 500 A)
	≤ 40 V (C2 - 5 kA)
Voltage protection level U_p (core-ground)	≤ 700 V (B2 - 100 A)

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Protective circuit

	$\leq 700 \text{ V (C1 - 500 A)}$
	$\leq 750 \text{ V (C2 - 5 kA)}$
Response time t_A (Core-Core)	$\leq 100 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Input attenuation a_E , sym.	typ. $0.3 \text{ dB } (\leq 30 \text{ MHz})$
	typ. $0.3 \text{ dB } (\leq 7 \text{ MHz / } 150 \text{ } \Omega)$
	typ. $0.3 \text{ dB } (\leq 2 \text{ MHz / } 600 \text{ } \Omega)$
Cut-off frequency f_g (3 dB), sym. in $100 \text{ } \Omega$ system	typ. 50 MHz
Resistance in series	$3.3 \text{ } \Omega \text{ } 10 \%$
Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	B2 - 4 kV/100 A
Impulse durability (conductor-ground)	B2 - 4 kV/100 A
	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	D1 - 1 kA

Connection data

Connection method	D-SUB-9
Connection type IN	D-SUB-9 socket
Connection type OUT	D-SUB-9 connector

Connection, equipotential bonding

Connection method	Cable connection
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Standards and Regulations

Standards/regulations	IEC 61643-21
	DIN EN 61643-21

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

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Classifications

eCl@ss

eCl@ss 9.0	27130807
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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

Approvals submitted

Approval details

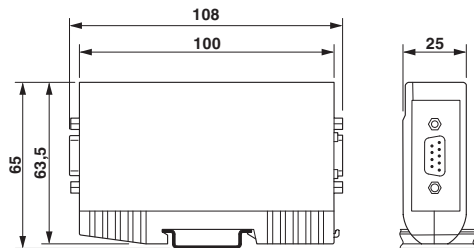
EAC

EAC

Drawings

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Dimensional drawing



Circuit diagram

