

Surge protection device - DT-UFB-IB-RB0 - 2800056

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Attachment plug with surge protection for 5-conductor remote bus input. Connection: 9-pos. D-SUB socket - plug. Can alternatively be snapped onto DIN rails. Incl. 1 m cable with 9-pos. D-SUB connection.

Product Features

- 9-pos. D-SUB connection
- Adapter type
- DIN rail mounting possible by removing the cap
- D-SUB cable included
- For remote bus modules (remote bus OUT - RBO)



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	440.0 g
Custom tariff number	85363010
Country of origin	Germany

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
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Technical data

General

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
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	5.8 V DC
Maximum continuous voltage U_C (wire-wire)	5.8 V DC
Nominal current I_N	$\leq 180 \text{ mA}$ (25 °C)
Operating effective current I_C at U_C	$\leq 1 \mu\text{A}$
Residual current I_{PE}	$\leq 5 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (Core-Core)	$\leq 5 \text{ kA}$
Nominal discharge current I_n (8/20) μs (Core-Earth)	$\leq 5 \text{ kA}$
Total surge current (8/20) μs	10 kA
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 700 \text{ V}$
Output voltage limitation at 1 kV/ μs (Core-Core) static	$\leq 15 \text{ V}$
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 700 \text{ V}$
Output voltage limitation at 1 kV/ μs (Core-GND) static	$\leq 15 \text{ V}$
Residual voltage at I_n (conductor-conductor)	$\leq 25 \text{ V}$
Residual voltage at I_n (conductor-ground)	$\leq 55 \text{ V}$
Residual voltage at I_n (conductor-GND)	$\leq 25 \text{ V}$
Voltage protection level U_p (core-core)	$\leq 16 \text{ V}$ (B2 - 100 A)
	$\leq 20 \text{ V}$ (C1 - 500 A)
	$\leq 60 \text{ V}$ (C2 - 1 kA)

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Technical data

Protective circuit

	$\leq 60 \text{ V (C2 - 5 kA)}$
Voltage protection level U_p (core-ground)	$\leq 700 \text{ V (B2 - 100 A)}$
	$\leq 700 \text{ V (C1 - 500 A)}$
	$\leq 700 \text{ V (C2 - 5 kA)}$
Response time t_A (Core-Core)	$\leq 1 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Input attenuation a_E , sym.	typ. $0.5 \text{ dB } (\leq 5 \text{ MHz} / 150 \text{ } \Omega)$
	typ. $0.6 \text{ dB } (\leq 10 \text{ MHz} - 100/150 \text{ } \Omega)$
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	$\geq 100 \text{ MHz}$
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	$\geq 100 \text{ MHz}$
Capacity (Core-Core)	typ. 20 pF
Resistance in series	typ. $7 \text{ } \Omega$
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 method	Remote bus output

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

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Classifications

eCl@ss

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

Ex Approvals

Approvals submitted

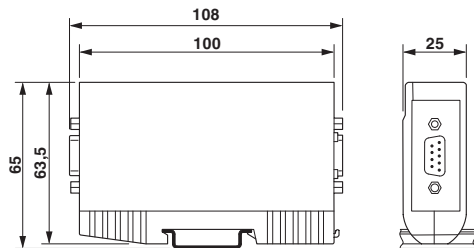
Approval details

EAC

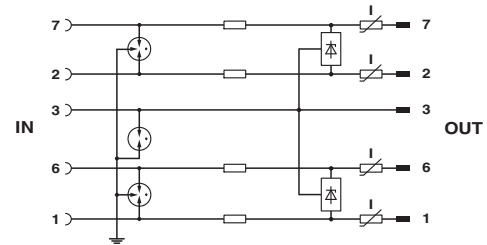
Drawings

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Dimensional drawing



Circuit diagram



Mouser Electronics

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