

Surge protection device - D-DS1-A/RJ45-BB - 2838050

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Attachment connector with surge protection for T1/E1 systems. Connection: RJ45 sockets

Product Features

- For applications with T1 (DS1) or E1 data transmission protocol
- Connection via a keyed RJ45 (RJ48) socket
- High transmission bandwidth



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	124.0 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	25.4 mm
Width	25.4 mm
Depth	102 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Degree of protection	IP20

General

Housing material	Aluminum
Color	black
Standards for clearances and creepage distances	VDE 0110-1
	IEC 60664-1

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Technical data

General

Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Maximum continuous voltage U_C	7 V DC
Maximum continuous voltage U_C (wire-wire)	7 V DC
Nominal current I_N	1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 mA
Residual current I_{PE}	≤ 4 µA
Nominal discharge current I_n (8/20) µs (Core-Core)	350 A
Nominal discharge current I_n (8/20) µs (Core-Earth)	2.5 kA
Total surge current (8/20) µs	10 kA
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 450 V
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 20 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 450 V
Residual voltage at I_n (conductor-conductor)	≤ 50 V
Residual voltage at I_n (conductor-ground)	≤ 25 V
Voltage protection level U_p (core-core)	≤ 50 V
Voltage protection level U_p (core-ground)	≤ 600 V
Response time tA (Core-Core)	≤ 500 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	0.1 dB (≤ 10 MHz)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	≥ 100 MHz
Capacity (Core-Core)	20 pF (f=1 MHz / V_R = 0 V)
Impulse durability (conductor-conductor)	C1 - 500 V / 250 A
Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 1 kA

Connection data

Connection method	RJ45
Connection type IN	RJ45 socket

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Technical data

Connection data

Connection type OUT	RJ45 socket
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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
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

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Approvals

Ex Approvals

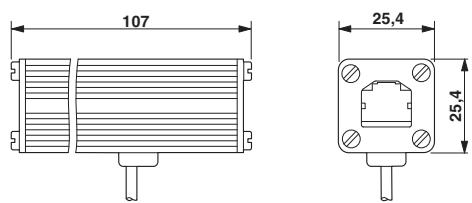
Approvals submitted

Approval details

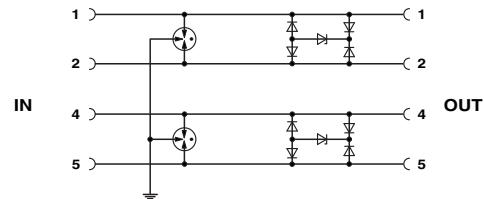
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Drawings

Dimensional drawing



Circuit diagram



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