

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

Your advantages

- ✔ 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
GTIN	 4 017918 176372
GTIN	4017918176372

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
Mounting type	Connection-specific intermediate plugging

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Technical data

General

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
Nominal current I_N	1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 mA
Residual current I_{PE}	≤ 4 μ A
Nominal discharge current I_n (8/20) μ s (line-line)	350 A
Nominal discharge current I_n (8/20) μ s (line-earth)	2.5 kA
Total surge current (8/20) μ s	10 kA
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 450 V
Output voltage limitation at 1 kV/ μ s (line-line) static	≤ 20 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 450 V
Residual voltage at I_n (line-line)	≤ 50 V
Residual voltage at I_n (line-earth)	≤ 25 V
Voltage protection level U_p (line-line)	≤ 50 V
Voltage protection level U_p (line-earth)	≤ 600 V
Response time t_A (line-line)	≤ 500 ns
Response time t_A (line-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 (line-line)	20 pF (f=1 MHz / $V_R=0$ V)
Surge protection fault message	none
Impulse durability (line-line)	C1 - 500 V / 250 A
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 1 kA

Connection data

Connection method	RJ45
Connection method IN	RJ45 socket
Connection method OUT	RJ45 socket

Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21

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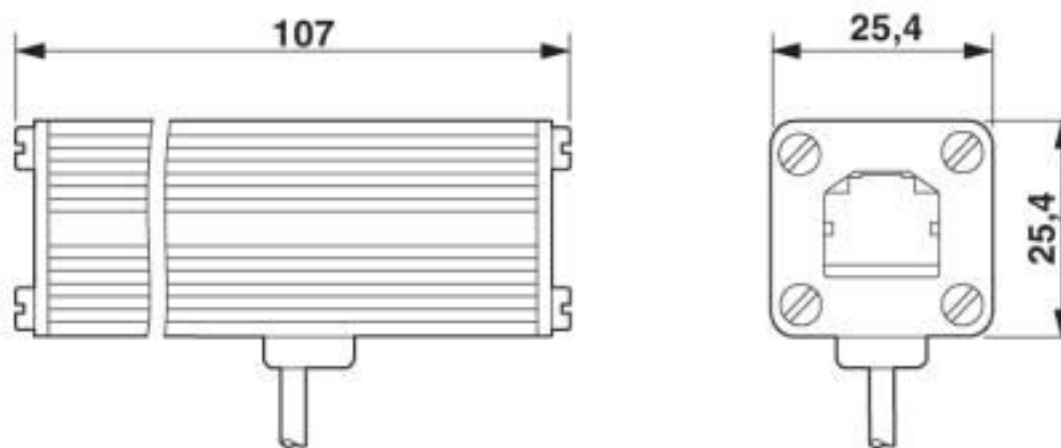
Technical data

Environmental Product Compliance

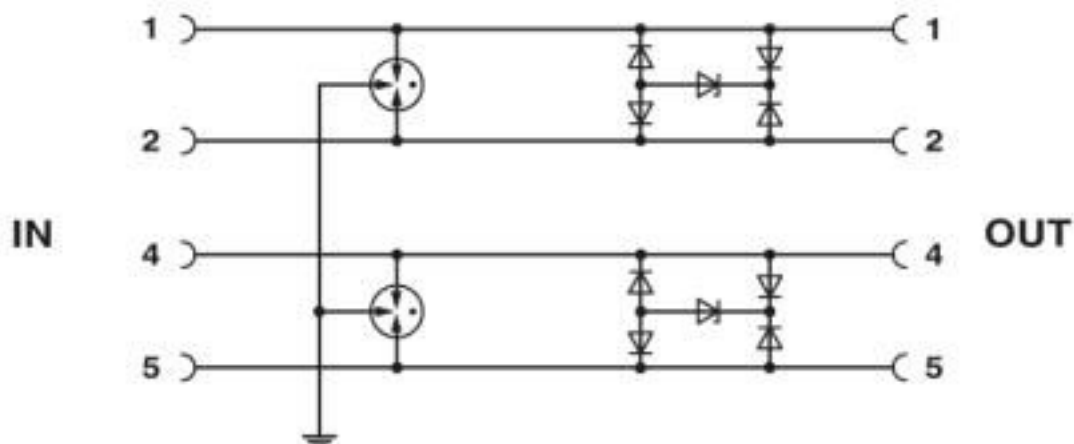
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800

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Classifications

eCl@ss

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
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 19.0	39121620

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