

D-FM-A/RJ45-BB - Surge protection device



2818795

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Attachment connector with surge protection for analog telecommunication interfaces.
Connection: RJ45 sockets

Commercial data

Item number	2818795
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL3
Product key	CL3222
Catalog page	Page 122 (TT-2005)
GTIN	4017918161927
Weight per piece (including packing)	122.3 g
Weight per piece (excluding packing)	109 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

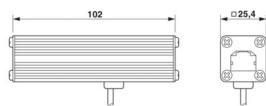
Product properties

IEC test classification	C2
	C3
VDE requirement class	C2
	C3
Type	Attachment plug
Product type	Surge protection for information technology
Product family	DATATRAB
Surge protection fault message	none

Connection data

Connection method	RJ45
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Dimensions

Dimensional drawing	
Width	25.4 mm
Height	25.4 mm
Depth	102 mm

Material specifications

Housing material	Aluminum
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Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Line & Line-Earth Ground
Maximum continuous voltage U_C	185 V DC
Operating effective current I_C at U_C	$\leq 10 \mu A$
Residual current I_{PE}	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (line-ground)	2.5 kA
Output voltage limitation at 1 kV/ μs (line-line) spike	$\leq 300 V$
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 1.4 kV$
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 300 V$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 1.4 kV$
Residual voltage at I_n (conductor-conductor)	$\leq 50 V$
Residual voltage at I_n (conductor-ground)	$\leq 150 V$

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Voltage protection level U_p (line-line)	$\leq 300 \text{ V}$
Voltage protection level U_p (line-earth)	$\leq 1.4 \text{ kV}$
Response time t_A (line-line)	$\leq 10 \text{ ns}$
Response time t_A (line-earth)	$\leq 100 \text{ ns}$
Inductivity in series	$39 \mu\text{H} \pm 10 \%$
Resistance per path	1Ω
Short-circuit current self-quenching	150 mA
Surge protection fault message	none

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	$-25 \text{ }^\circ\text{C} \dots 85 \text{ }^\circ\text{C}$

Standards and regulations

VDE requirement class	C2
	C3

Standards Information technology specification

Standards/regulations	Draft IEC 64644-1
	E VDE 0845-3-1
	Draft IEC 64644-1
	E VDE 0845-3-1

Mounting

Mounting type	Connection-specific intermediate plugging
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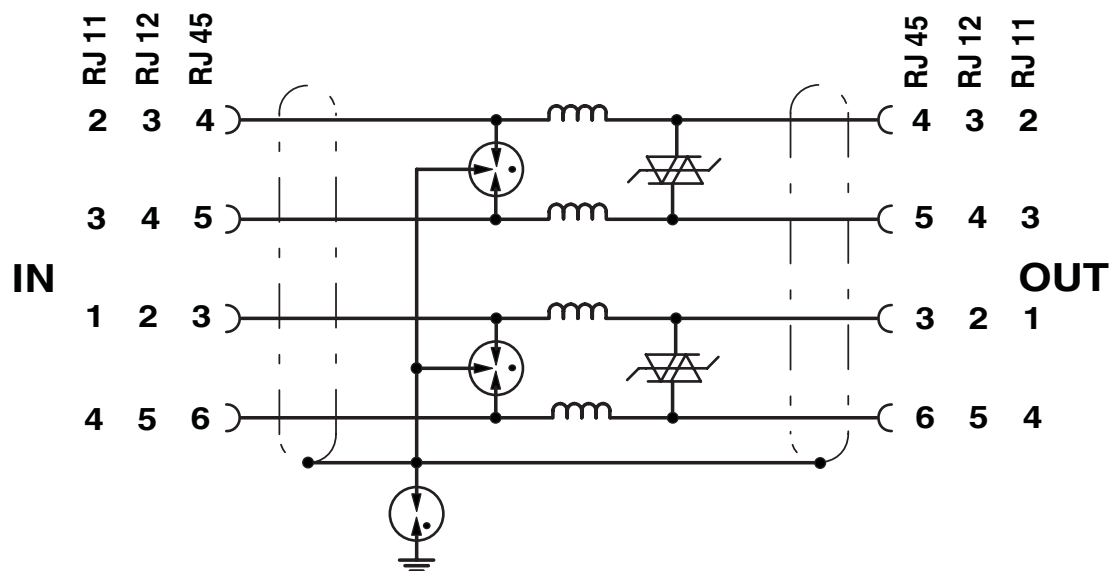
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Drawings

Circuit diagram



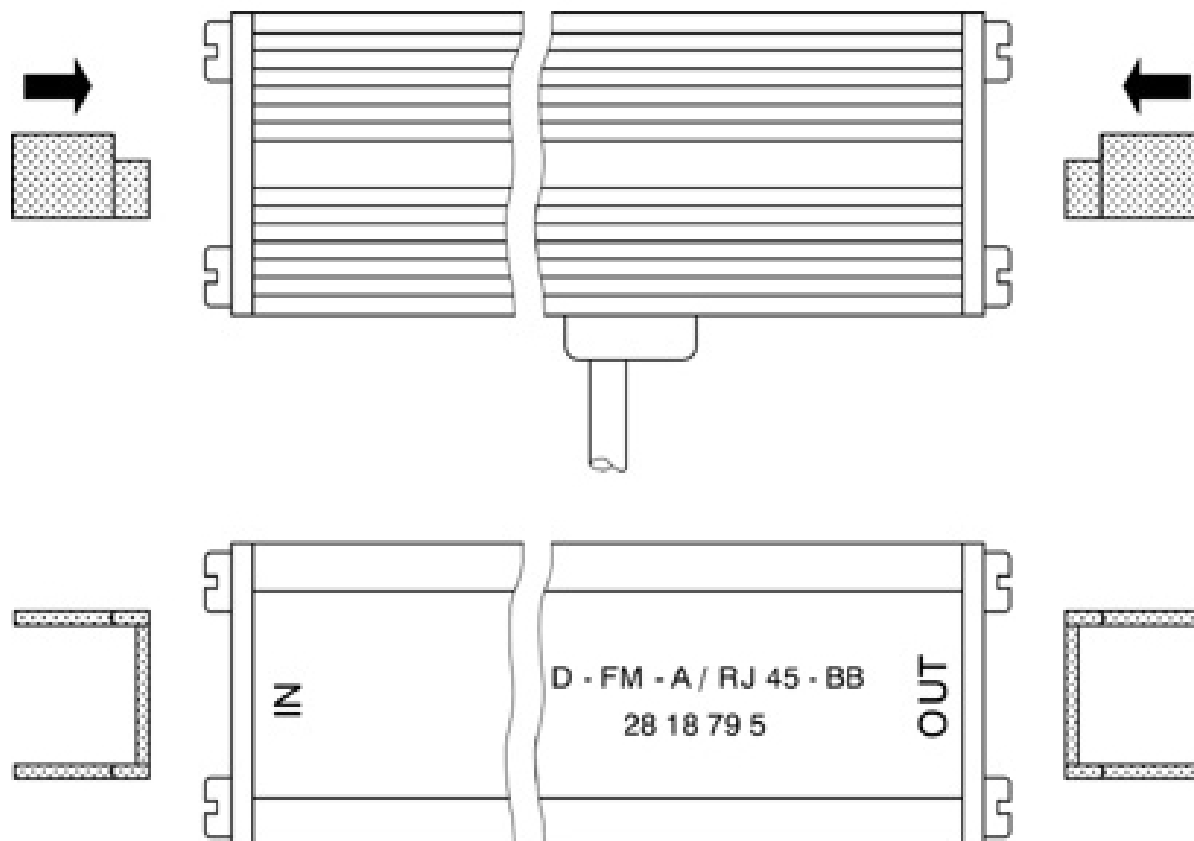
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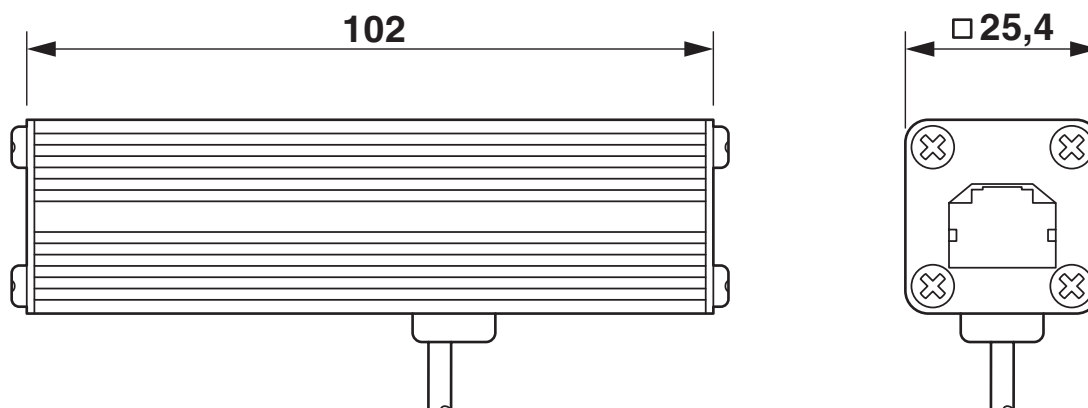
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Schematic diagram



Dimensional drawing



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Classifications

ECLASS

ECLASS-11.0	27130807
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UNSPSC

UNSPSC 21.0	39121620
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Environmental product compliance

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

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