

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



2818795

<https://www.phoenixcontact.com/us/products/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
Note	Made to order (non-returnable)
Sales key	CL03
Product key	CL3222
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

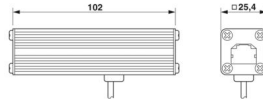
### Product properties

Product type	Surge protection for information technology
Product family	DATATRAB
IEC test classification	C2
	C3
VDE requirement class	C2
	C3
Type	Intermediate plug
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 operating voltage $U_C$	185 V DC
Operating effective current $I_C$ at $U_C$	$\leq 10 \mu A$
Protective conductor current $I_{PE}$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)	2.5 kA
Output voltage limitation at 1 kV/ $\mu s$ (line-line) spike	$\leq 300 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) spike	$\leq 1.4 kV$
Output voltage limitation at 1 kV/ $\mu s$ (line-line) static	$\leq 300 V$
Output voltage limitation at 1 kV/ $\mu s$ (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	$1 \Omega$
Short-circuit current self-quenching	$150 \text{ mA}$
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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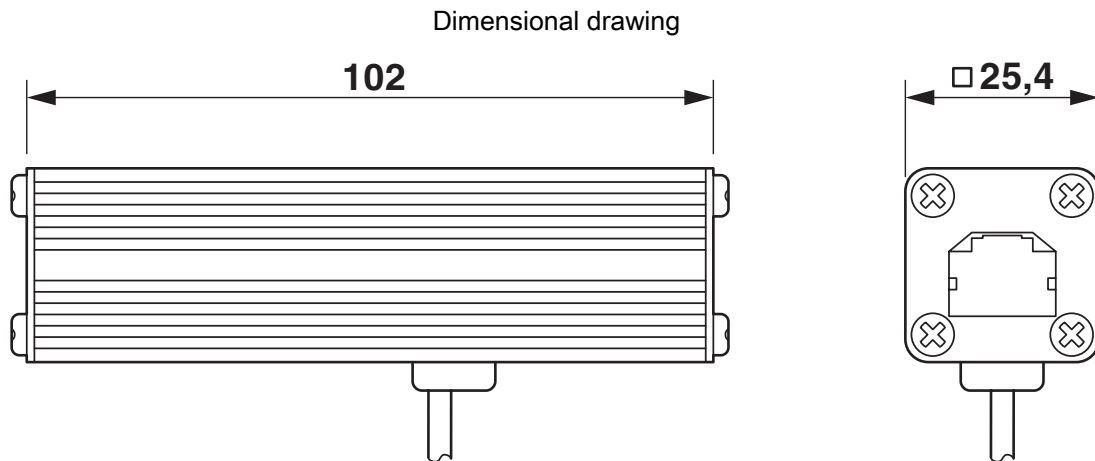
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## Drawings



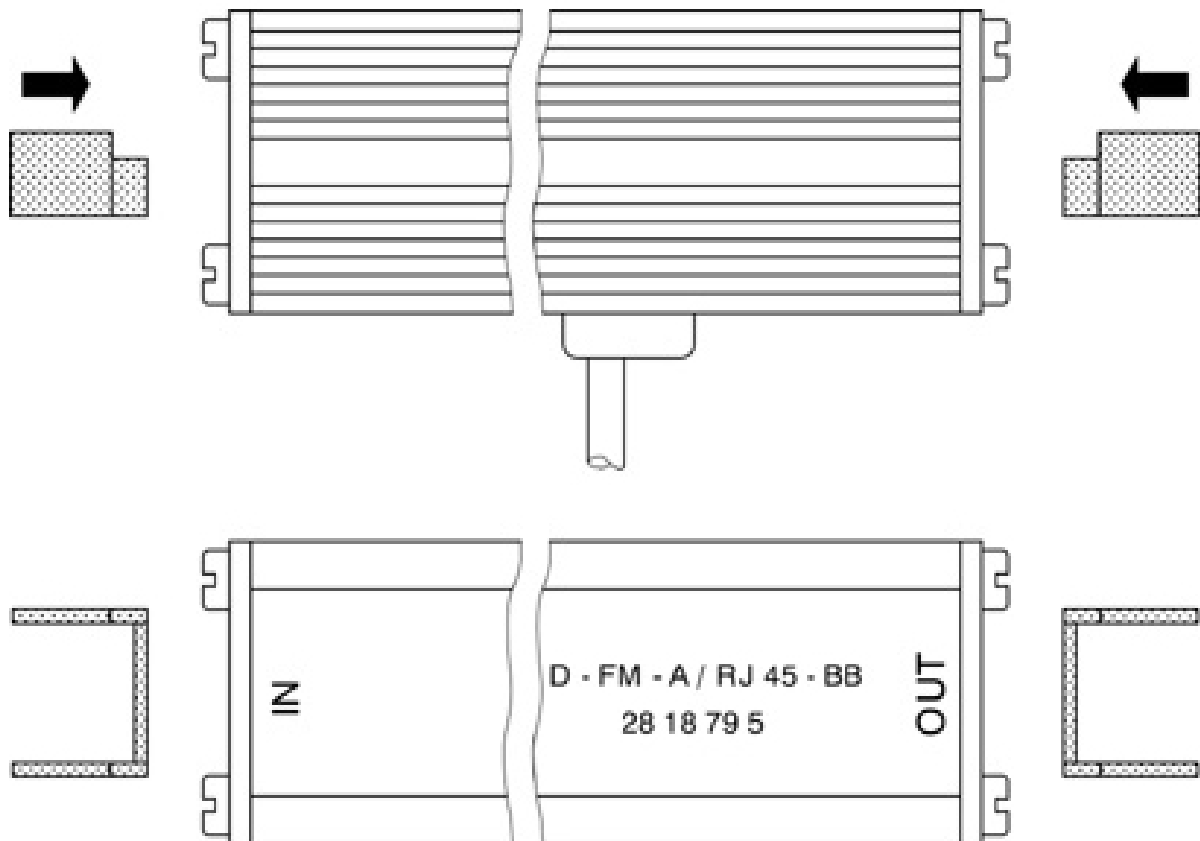
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Schematic diagram



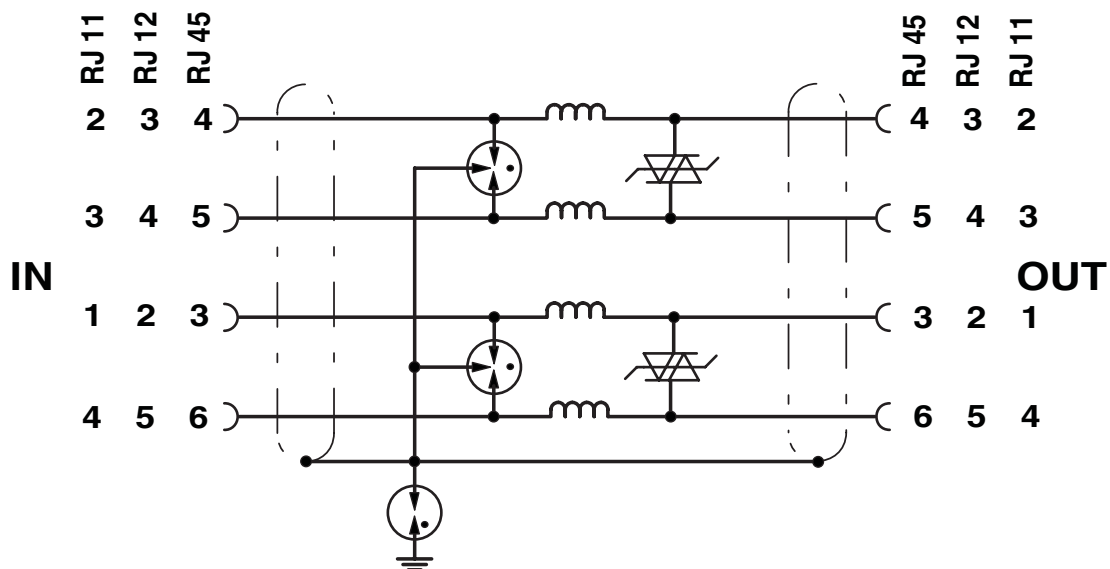
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Circuit diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	39121620
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## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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