

D-UFB-IB-S-RBI - Surge protection device



2748357

<https://www.phoenixcontact.com/us/products/2748357>

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Attachment plug with surge protection for 5-conductor remote bus input. Connection: D-SUB 9 plug- cable socket with approx. 20 cm conductor, snap-on foot for mounting on NS 32 or NS 35/7.5

Commercial data

Item number	2748357
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	CL3113
GTIN	4017918062507
Weight per piece (including packing)	252.4 g
Weight per piece (excluding packing)	237.3 g
Customs tariff number	85363010
Country of origin	DE

Technical data

Product properties

Product type	Surge protection for information technology
Product family	DATATRAB
IEC test classification	C1
	C3
VDE requirement class	C1
	C3
Type	Attachment plug for DIN rail mounting
Wire pairs per module	2

Electrical properties

Nominal voltage U_N	5 V DC
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Connection data

Connection method	D-SUB-9
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Dimensions

Width	16.5 mm
Height	112.8 mm
Depth	70 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-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Nominal voltage U_N	5 V DC
Maximum continuous operating voltage U_C	5.8 V DC
Maximum continuous voltage U_C (line-line)	5.8 V DC
Nominal current I_N	300 mA (25 °C)
Operating effective current I_C at U_C	$\leq 300 \mu\text{A}$
Protective conductor current I_{PE}	$\leq 5 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (line-line)	350 A
Nominal discharge current I_n (8/20) μs (line-ground)	350 A
Nominal discharge current I_n (8/20) μs (line-signal ground)	350 A
Total surge current (8/20) μs	1.5 kA
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	350 A

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Output voltage limitation at 1 kV/ μ s (line-line) spike	≤ 45 V
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 900 V
Output voltage limitation at 1 kV/ μ s (line-line) static	≤ 12 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 900 V
Output voltage limitation at 1 kV/ μ s (line-signal ground) static	≤ 12 V
Residual voltage at I_n (conductor-conductor)	≤ 30 V
Residual voltage at I_n (conductor-ground)	≤ 75 V
Residual voltage at I_n (line-signal ground)	≤ 30 V
Voltage protection level U_p (line-line)	≤ 45 V
Voltage protection level U_p (line-earth)	≤ 900 V
Response time t_A (line-line)	≤ 500 ns
Response time t_A (line-earth)	≤ 500 ns
Response time t_A (line-signal ground)	≤ 500 ns
Input attenuation aE, sym.	0.1 dB (≤ 8.5 MHz)
	0.1 dB (≤ 8.5 MHz)
	0.1 dB (up to 2.5 MHz 600 Ohm Ω)
Cut-off frequency f_g (3 dB), sym. in 50 Ω system	typ. 100 MHz
Cut-off frequency f_g (3 dB), sym. in 150 Ω system	> 100 MHz
Cut-off frequency f_g (3 dB), sym. in 600 Ω system	typ. 30 MHz
Capacity (Core-Core)	50 pF
Capacity (Core-Earth)	1.2 pF
Capacitance (line-signal ground)	50 pF
Impulse durability (line-line)	C1 - 500 V / 250 A
Impulse durability (line-earth)	C1 - 500 V / 250 A

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP10
Ambient temperature (operation)	-40 °C ... 80 °C

Standards and regulations

VDE requirement class	C1
	C3

Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

Air clearances and creepage distances

Standards/regulations	VDE 0110-1 / IEC 60664-1
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Mounting

Mounting type	DIN rail: 35 mm
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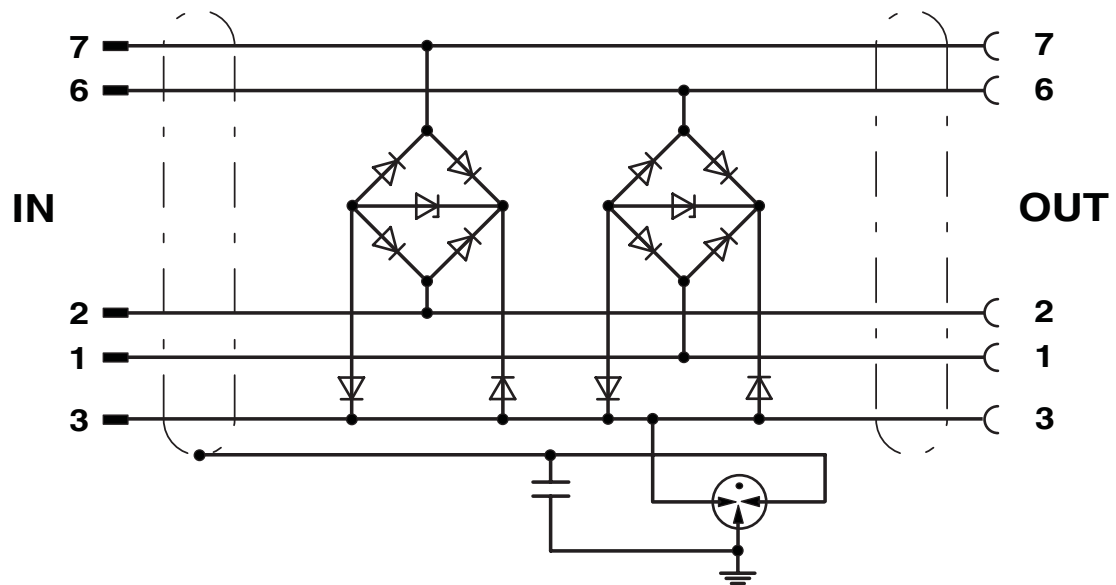
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Drawings

Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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