

MT-2/1-S- 48DC - Surge protection device



2748056

<https://www.phoenixcontact.com/us/products/2748056>

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Rail-mountable module with surge voltage fine protection, mounting on NS 35/7.5. Nominal voltage: 48 V DC, housing width: 12.5 mm

Commercial data

Item number	2748056
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CL2251
Catalog page	Page 109 (TT-2009)
GTIN	4017918062309
Weight per piece (including packing)	36.78 g
Weight per piece (excluding packing)	30.725 g
Country of origin	DE

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Technical data

Product properties

Product type	Surge protection for MCR technology
IEC test classification	C1
	C2
	C3
Type	DIN rail module, one-piece
Number of positions	2
Surge protection fault message	none
Wire pairs per module	1

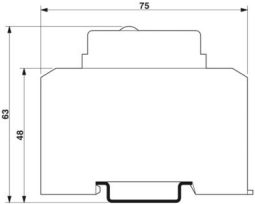
Electrical properties

Nominal voltage U_N	48 V DC
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Connection data

Connection method	Screw terminal blocks
Screw thread	M3
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	12.4 mm
Height	77.5 mm
Depth	55 mm

Material specifications

Flammability rating according to UL 94	V-0
Housing material	PA-F

Mechanical properties

Mechanical data	
Open side panel	No

Protective circuit

Direction of action	Line-Line
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Maximum continuous voltage U_C	52 V DC
	36 V AC
Rated current	6 A
Operating effective current I_C at U_C	$\leq 10 \mu A$
Nominal discharge current I_n (8/20) μs (line-line)	1.1 kA
Total discharge current I_{total} (8/20) μs	1.1 kA
Max. discharge current I_{max} (8/20) μs maximum (line-line)	1.1 kA
Nominal pulse current I_{an} (10/1000) μs (line-line)	119 A
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 80 V$
Residual voltage at I_n (conductor-conductor)	$\leq 115 V$
Residual voltage with I_{an} (10/1000) μs (line-line)	$\leq 85 V$
Response time t_A (line-line)	$\leq 1 ns$
Capacity (Core-Core)	typ. 3.5 nF
Surge protection fault message	none
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C2 - 2 kV / 1 kA
	C3 - 100 A

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

Standards and regulations

Air clearances and creepage distances

Standards/regulations	VDE 0110-1
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Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

Mounting

Mounting type	DIN rail: 35 mm
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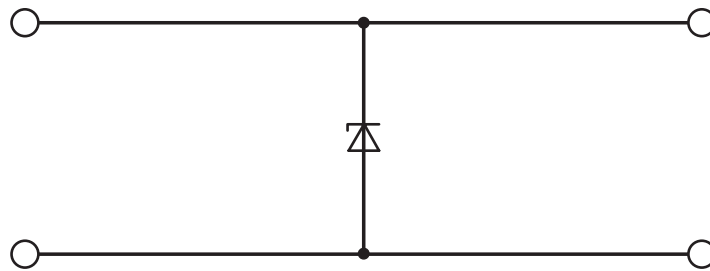
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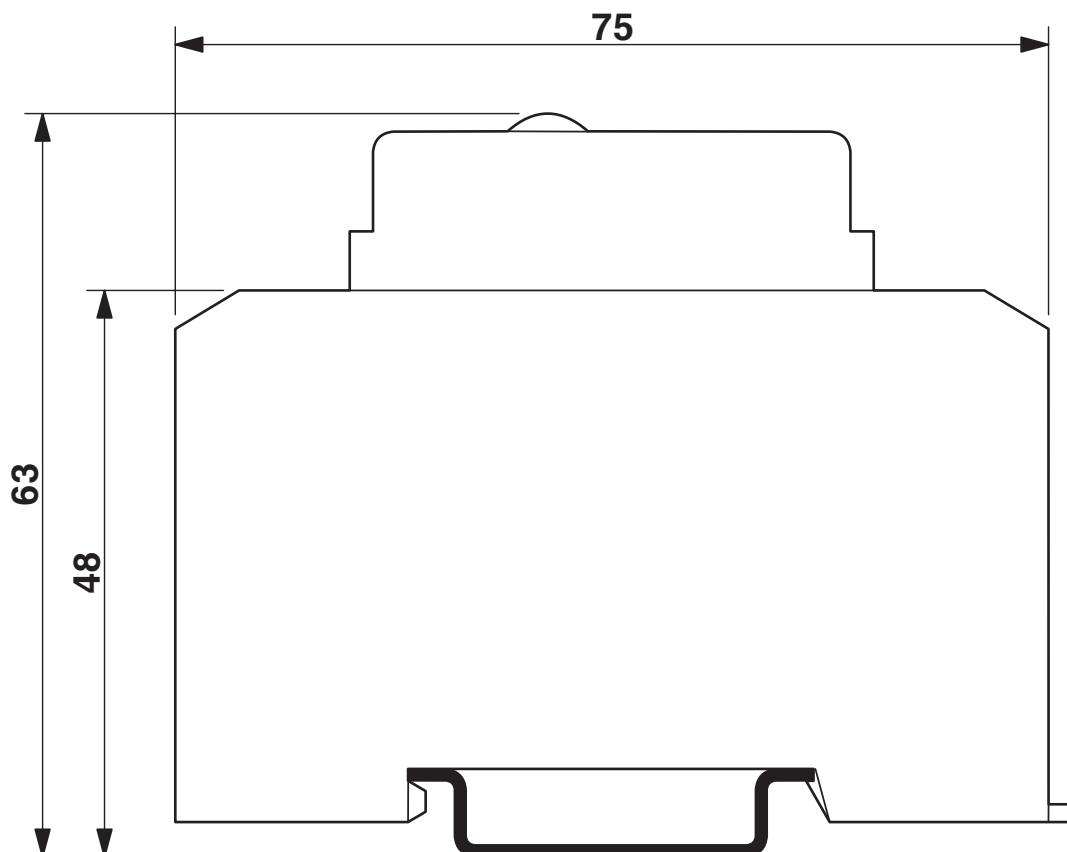


Drawings

Circuit diagram



Dimensional drawing



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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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Accessories

SSA 3-6 - Shield connection

2839295

<https://www.phoenixcontact.com/us/products/2839295>

Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable:
200 mm, 1 mm², color: black



SSA 5-10 - Shield connection

2839512

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Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable:
200 mm, 1 mm², color: black



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