

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

The illustration shows version MT-2/1S- 24 DC



### Key commercial data

Packing unit	10 pc
GTIN	 4 017918 062309
Weight per Piece (excluding packing)	30.72 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

Height	77.5 mm
Width	12.4 mm
Depth	55 mm

#### Ambient conditions

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

#### General

Housing material	PA-F
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece

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## Technical data

### General

Number of positions	2
Direction of action	Line-Line

### Protective circuit

IEC test classification	C1
	C2
	C3
Nominal voltage $U_N$	48 V DC
Maximum continuous operating voltage $U_C$	52 V DC
	36 V AC
Maximum continuous voltage $U_C$ (wire-wire)	52 V DC
	36 V AC
Nominal current $I_N$	6 A
Operating effective current $I_C$ at $U_C$	$\leq 10 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (Core-Core)	1.1 kA
Total surge current (8/20) $\mu s$	1.1 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Core)	1.1 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Core)	119 A
Output voltage limitation at 1 kV/ $\mu s$ (Core-Core) static	$\leq 80 V$
Residual voltage at $I_n$ , (conductor-conductor)	$\leq 115 V$
Residual voltage with $I_{an}$ (10/1000) $\mu s$ (conductor-conductor)	$\leq 85 V$
Response time $t_A$ (Core-Core)	$\leq 1 ns$
Capacity (Core-Core)	typ. 3.5 nF
Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 2 kV / 1 kA
	C3 - 100 A

### Connection data

Connection method	Screw terminal blocks
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

### Standards and Regulations

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## Technical data

### Standards and Regulations

Standards/regulations	IEC 61643-21
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## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807

### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

### UNSPSC

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

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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Approvals submitted

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Approval details

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## Approvals

EAC

## Accessories

### Additional products

Shield connection - SSA 3-6 - 2839295



shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

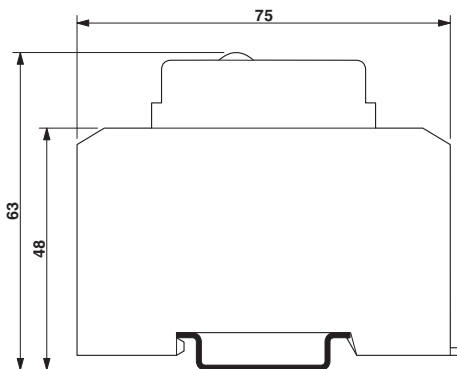
Shield connection - SSA 5-10 - 2839512



Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

## Drawings

Dimensioned drawing



Circuit diagram

