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## Surge protection device - MT-2/1-S- 24DC - 2765699

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Rail-mountable module with surge voltage fine protection, mounting on NS 35/7.5. Nominal voltage: 24 V DC, housing width: 12.5 mm

### Key Commercial Data

Packing unit	10 STK
GTIN	 4 017918 066543

### 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
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	VDE 0110-1
Mounting type	DIN rail: 35 mm
Type	Rail-mountable module, one-piece
Number of positions	2
Direction of action	Line-Line

#### Protective circuit

IEC test classification	C1
	C2
	C3
Nominal voltage $U_N$	24 V DC
Maximum continuous voltage $U_C$	30 V DC

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## Technical data

### Protective circuit

	21 V AC
Maximum continuous voltage $U_c$ (wire-wire)	30 V DC
	21 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)	1.5 kA
Total surge current (8/20) $\mu s$	1.5 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Core)	1.5 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Core)	185 A
Output voltage limitation at 1 kV/ $\mu s$ (Core-Core) static	$\leq 55 V$
Residual voltage at $I_n$ (conductor-conductor)	$\leq 95 V$
Response time $t_A$ (Core-Core)	$\leq 1 ns$
Capacity (Core-Core)	typ. 7 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 flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible 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 min.	24
Conductor cross section AWG max.	12

### 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

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## Classifications

### eCl@ss

eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	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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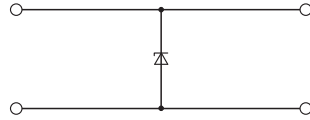
Approval details

EAC
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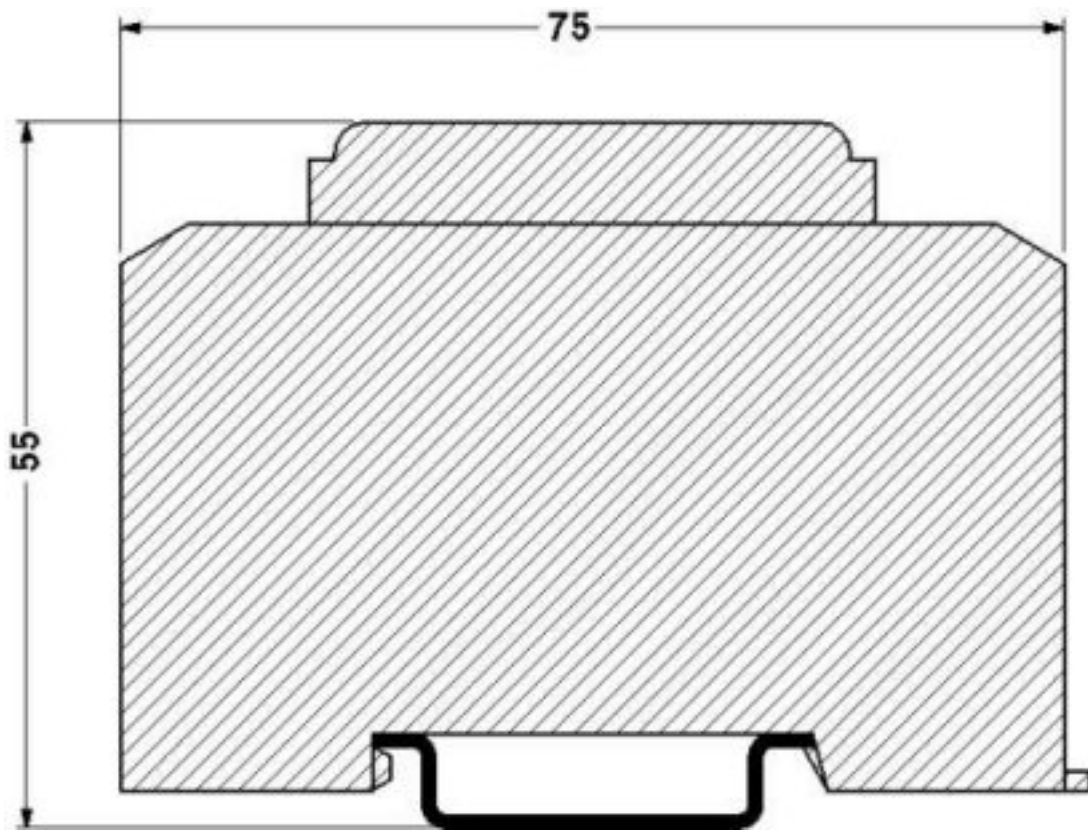
## Drawings

## Surge protection device - MT-2/1-S- 24DC - 2765699

Circuit diagram



Dimensional drawing



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