

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	1
Minimum order quantity	1
Catalog page	Page 109 (TT-2009)
GTIN	 4 017918 066543
Custom tariff number	85363010
Country of origin	GERMANY

Technical data

General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
Total surge current (8/20) μ s	1.5 kA
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Number of positions	2
Degree of protection	IP20
Direction of action	Line-Line
Width	12.4 mm
Height	77.5 mm
Depth	55 mm

Protective circuit

IEC category	C1
IEC category	C2

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Technical data

Protective circuit

IEC category	C3
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	30 V DC
Maximum continuous operating voltage U_C	21 V AC
Maximum continuous voltage U_C (wire-wire)	30 V DC
Maximum continuous voltage U_C (wire-wire)	21 V AC
Nominal current I_N	6 A
Operating effective current I_C at U_C	$\leq 10 \mu\text{A}$
Nominal discharge surge current I_n (8/20) μs (Core-Core)	1.5 kA
Total surge current (8/20) μs	1.5 kA
Max. discharge surge current I_{max} (8/20) μs maximum (Core-Core)	1.5 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Core)	185 A
Output voltage limitation at 1 kV/ μs (Core-Core) static	$\leq 55 \text{ V}$
Residual voltage at I_n , (conductor-conductor)	$\leq 95 \text{ V}$
Response time t_A (Core-Core)	$\leq 1 \text{ ns}$
Capacity (Core-Core)	Typ. 7 nF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 (2 kV / 1 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	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 ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Connection, protective circuit

Standards/regulations	IEC 61643-21
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Classifications

ETIM

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

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Classifications

UNSPSC

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

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

Approvals

Approvals

Approvals

GOST / GOST

Ex Approvals

Approvals submitted

Approval details



Accessories

Additional products

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Accessories

Shield connection - SSA 3-6 - 2839295



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

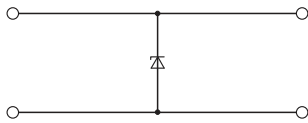
Shield connection - SSA 5-10 - 2839512



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

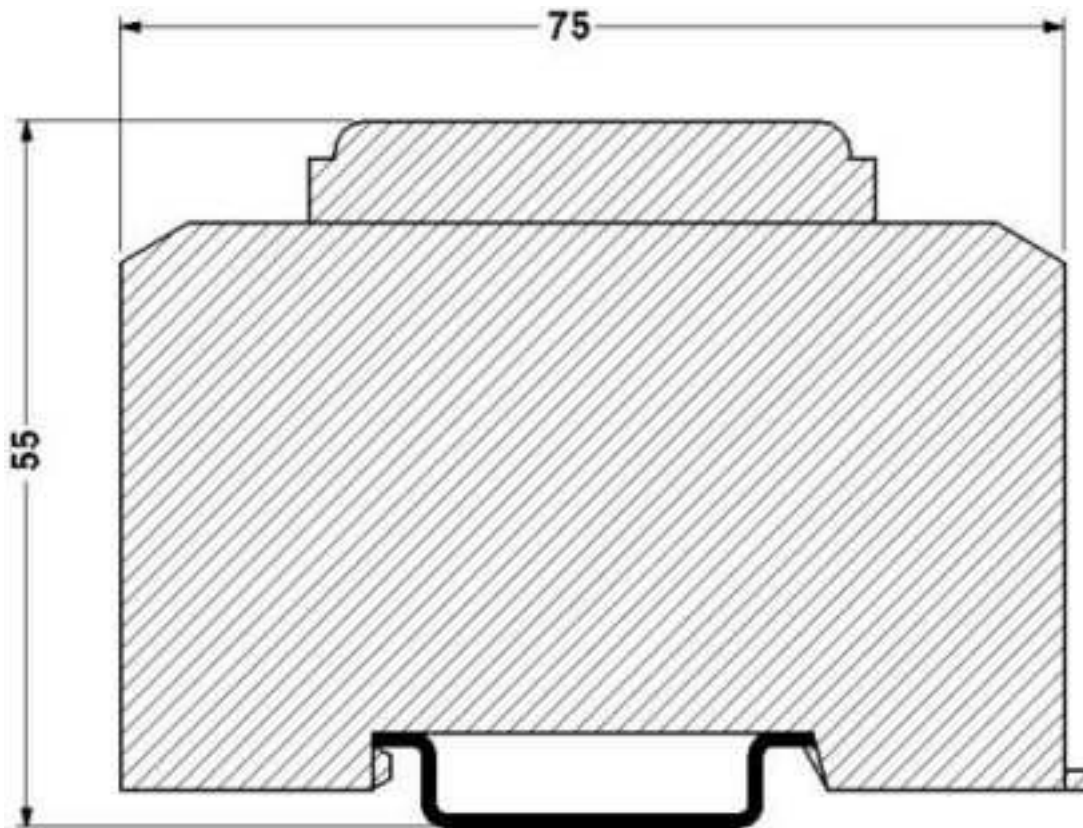
Drawings

Circuit diagram



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Dimensioned drawing



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