

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



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

Commercial data

Item number	2765699
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL2251
Product key	CL2251
GTIN	4017918066543
Weight per piece (including packing)	34,46 g
Weight per piece (excluding packing)	31,45 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

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

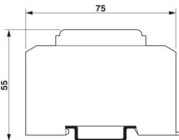
Electrical properties

Nominal voltage U_N	24 V DC
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Connection data

Connection method	Screw terminal block
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
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

Color	black (RAL 9005)
	silver-colored
Flammability rating according to UL 94	V-0
Housing material	PA

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

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Direction of action	Line-Line
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	30 V DC
	21 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)	1.5 kA
Total discharge current I_{Total} (8/20) μs	1.5 kA
Max. discharge current I_{max} (8/20) μs maximum (line-line)	1.5 kA
Nominal pulse current I_{an} (10/1000) μs (line-line)	185 A
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 55 V$
Residual voltage at I_n (conductor-conductor)	$\leq 95 V$
Response time t_A (line-line)	$\leq 1 ns$
Capacity (Core-Core)	typ. 7 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

Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

Air clearances and creepage distances

Standards/regulations	VDE 0110-1
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Mounting

Mounting type	DIN rail: 35 mm
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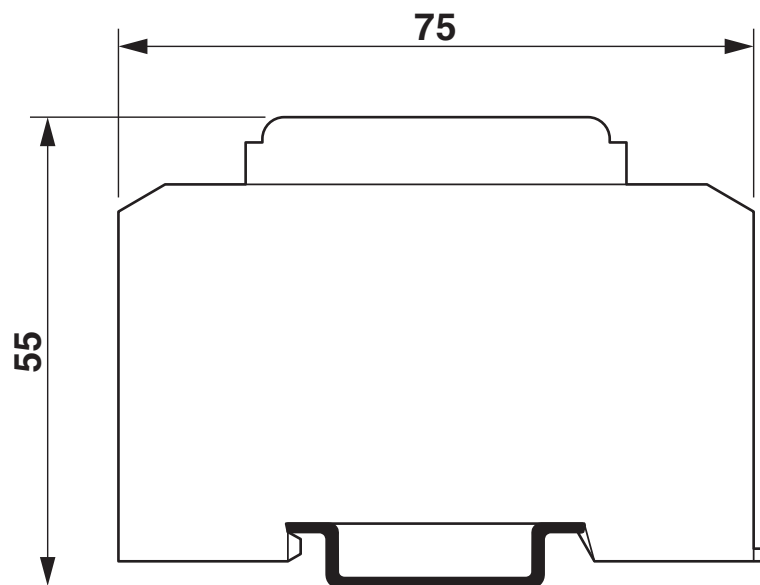
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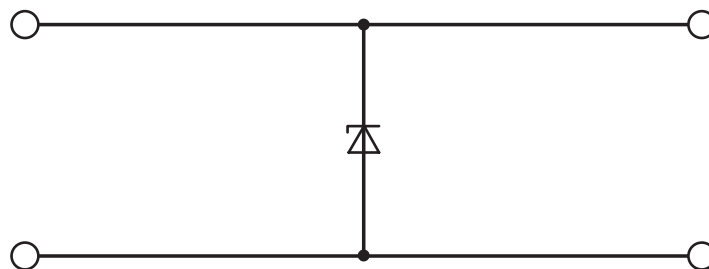


Drawings

Dimensional drawing



Circuit diagram



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Classifications

ECLASS

ECLASS-13.0	27171501
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ETIM

ETIM 9.0	EC001625
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	1b41c977-25c4-43cf-a7c3-d1b2b2f7b673

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