

# MT-RS485 - Surge protection device

2762265

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Rail-mountable module with surge voltage coarse and fine protection for RS-485 interface, for mounting on NS 35/7.5, housing width: 50 mm

## Commercial data

Item number	2762265
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	CL03
Product key	CL3132
GTIN	4017918064945
Weight per piece (including packing)	118.4 g
Weight per piece (excluding packing)	101.952 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Product properties

Product type	Surge protection for information technology
IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Type	DIN rail module, one-piece
Surge protection fault message	none
Wire pairs per module	2

### Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

### Dimensions

Dimensional drawing	
Width	47.6 mm
Height	77.5 mm
Depth	54.9 mm

### Material specifications

Color	black (RAL 9005)
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### Mechanical properties

#### Mechanical data

Open side panel	No
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### Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
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Maximum continuous operating voltage $U_C$	12 V DC
Rated current	450 mA (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 10 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-line)	10 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-ground)	10 kA
Pulse discharge current $I_{\text{imp}}$ (10/350) $\mu\text{s}$	500 A
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) spike	$\leq 22 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) spike	$\leq 600 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) static	$\leq 22 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) static	$\leq 600 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-signal ground) static	$\leq 22 \text{ V}$
Residual voltage at $I_n$ (conductor-conductor)	$\leq 19 \text{ V}$
Residual voltage at $I_n$ (line-signal ground)	$\leq 19 \text{ V}$
Voltage protection level $U_p$ (line-line)	$\leq 22 \text{ V}$
Voltage protection level $U_p$ (line-earth)	$\leq 600 \text{ V}$
Voltage protection level $U_p$ (line-signal ground)	$\leq 22 \text{ V}$
Response time $t_A$ (line-line)	1 ns
Response time $t_A$ (line-earth)	$\leq 100 \text{ ns}$
Response time $t_A$ (line-signal ground)	$\leq 1 \text{ ns}$
Input attenuation aE, sym.	$\leq 0.1 \text{ dB}$ (up to 10 kHz)
Input attenuation aE, asym.	0.8 dB (up to 0.1 MHz 50 $\Omega$ system) 0.1 dB (up to 10 kHz 600 $\Omega$ system)
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 50 $\Omega$ system	1.3 MHz
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 600 $\Omega$ system	130 kHz
Resistance per path	4.4 $\Omega$
Surge protection fault message	none

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 60 °C

## Standards and regulations

VDE requirement class	C2
	C3
	D1

### Standards Information technology specification

Standards/regulations	IEC 61643-21 IEC 61643-21
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## Mounting

Mounting type	DIN rail: 35 mm
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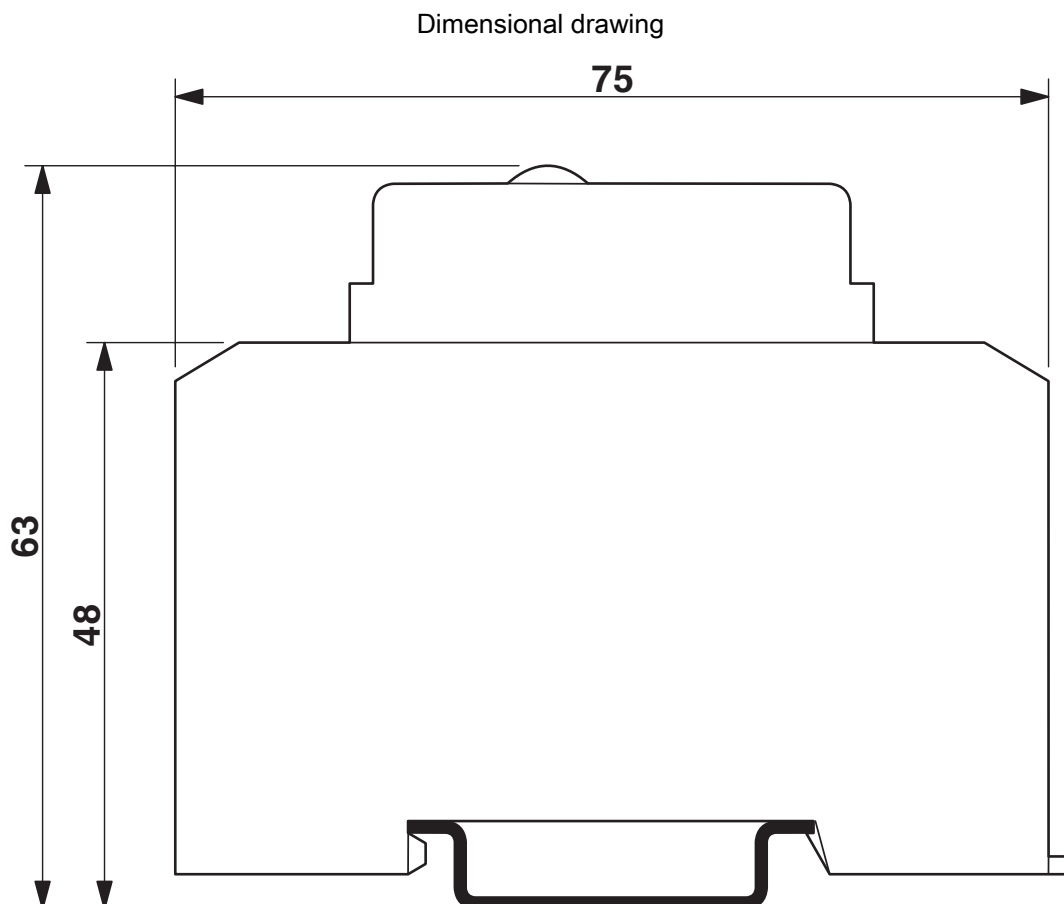
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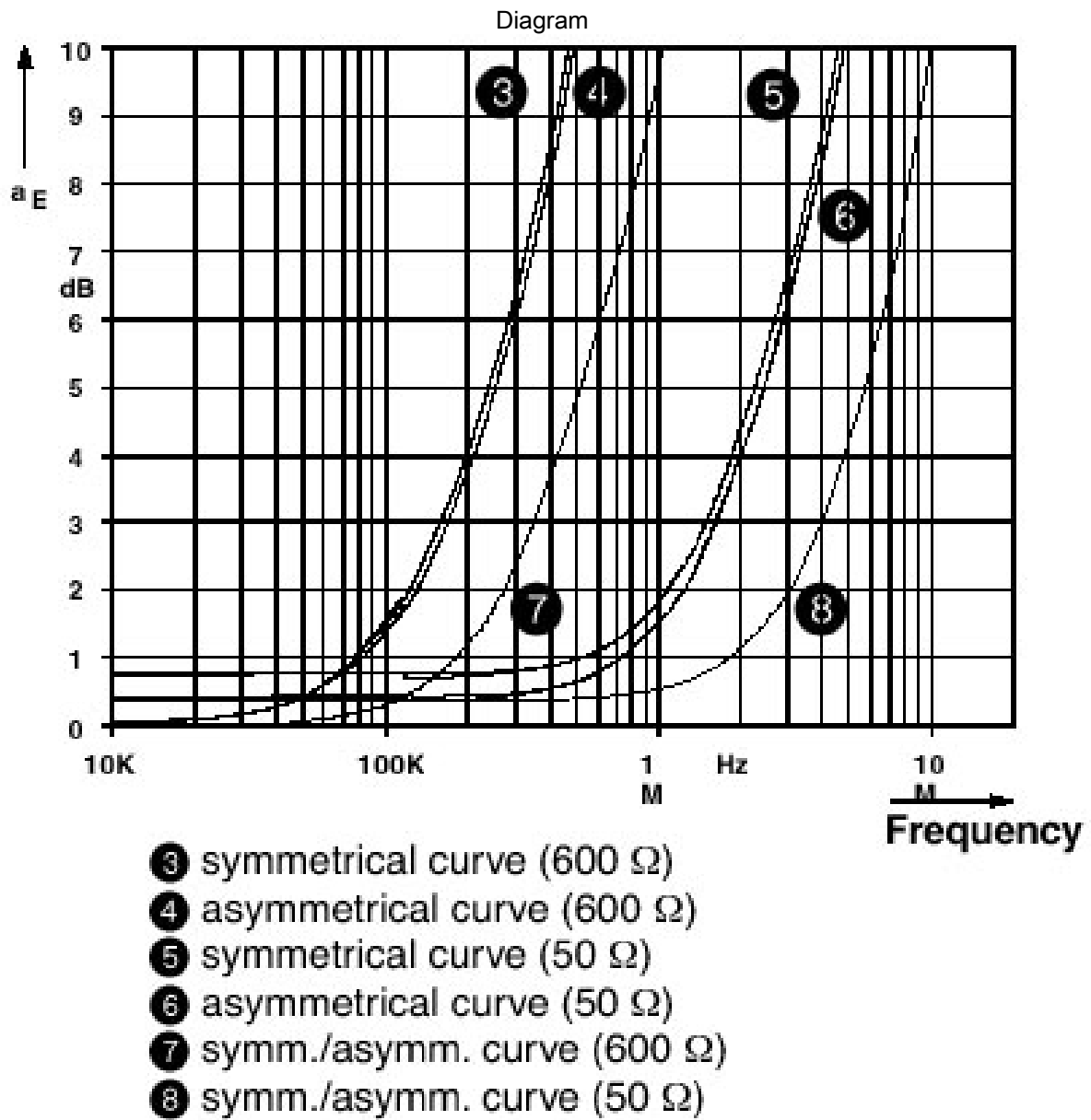
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## Drawings





Characteristic attenuation curve

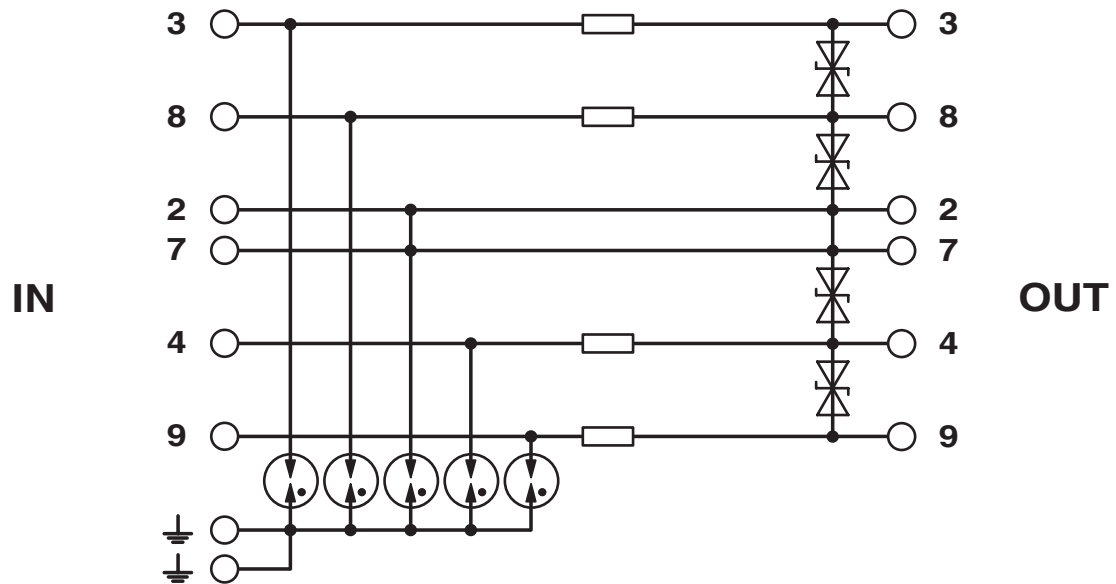
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Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171503
ECLASS-15.0	27171503

### ETIM

ETIM 10.0	EC001466
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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	85049ad2-148c-4308-ae4a-45cffc2da000

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