

Surge protection device - MT-RS485 - 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

The illustration shows version MT-RS485/S

Key commercial data

package_quantity	5
GTIN	4017918064945

Technical data

Dimensions

Height	77.5 mm
Width	47.6 mm
Depth	54.9 mm

Ambient conditions

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

General

Color	black
Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground

Protective circuit

IEC test classification	C2
IEC test classification	C3
IEC test classification	D1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
Maximum continuous voltage U_c (wire-ground)	12 V DC
Nominal current I_N	450 mA (25 °C)
Operating effective current I_c at U_c	$\leq 10 \mu A$

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Technical data

Protective circuit

Nominal discharge current I_n (8/20) μ s (Core-Core)	10 kA
Nominal discharge current I_n (8/20) μ s (Core-Earth)	10 kA
Impulse discharge current (10/350) μ s, peak value I_{imp}	500 A
Output voltage limitation at 1 kV/ μ s (Core-Core) spike	≤ 22 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 600 V
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 22 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 600 V
Output voltage limitation at 1 kV/ μ s (Core-GND) static	≤ 22 V
Residual voltage at I_n , (conductor-conductor)	≤ 19 V
Residual voltage at I_n , (conductor-GND)	≤ 19 V
Voltage protection level U_p (Core-Core)	≤ 22 V
Voltage protection level U_p (Core-Earth)	≤ 600 V
Voltage protection level U_p (Core-GND)	≤ 22 V
Response time t_A (Core-Core)	1 ns
Response time t_A (Core-Earth)	≤ 1 ns
Response time t_A (Core-Earth)	≤ 100 ns
Input attenuation a_E , sym.	≤ 0.1 dB (Up to 10 kHz)
Input attenuation a_E , asym.	0.8 dB (up to 0.1 MHz 50 Ω system)
Input attenuation a_E , asym.	0.1 dB (up to 10 kHz 600 Ω system)
Cut-off frequency f_g (3 dB), asym. (GND) in 50 Ohm system	1.3 MHz
Cut-off frequency f_g (3 dB), asym. (GND) in 600 Ohm system	130 kHz
Resistance in series	4.4 Ω

Connection data

Connection method	Screw connection
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

Standards and Regulations

Standards/regulations	IEC 61643-21
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classifications

eCI@ss

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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

GOST / GOST /

Approval details

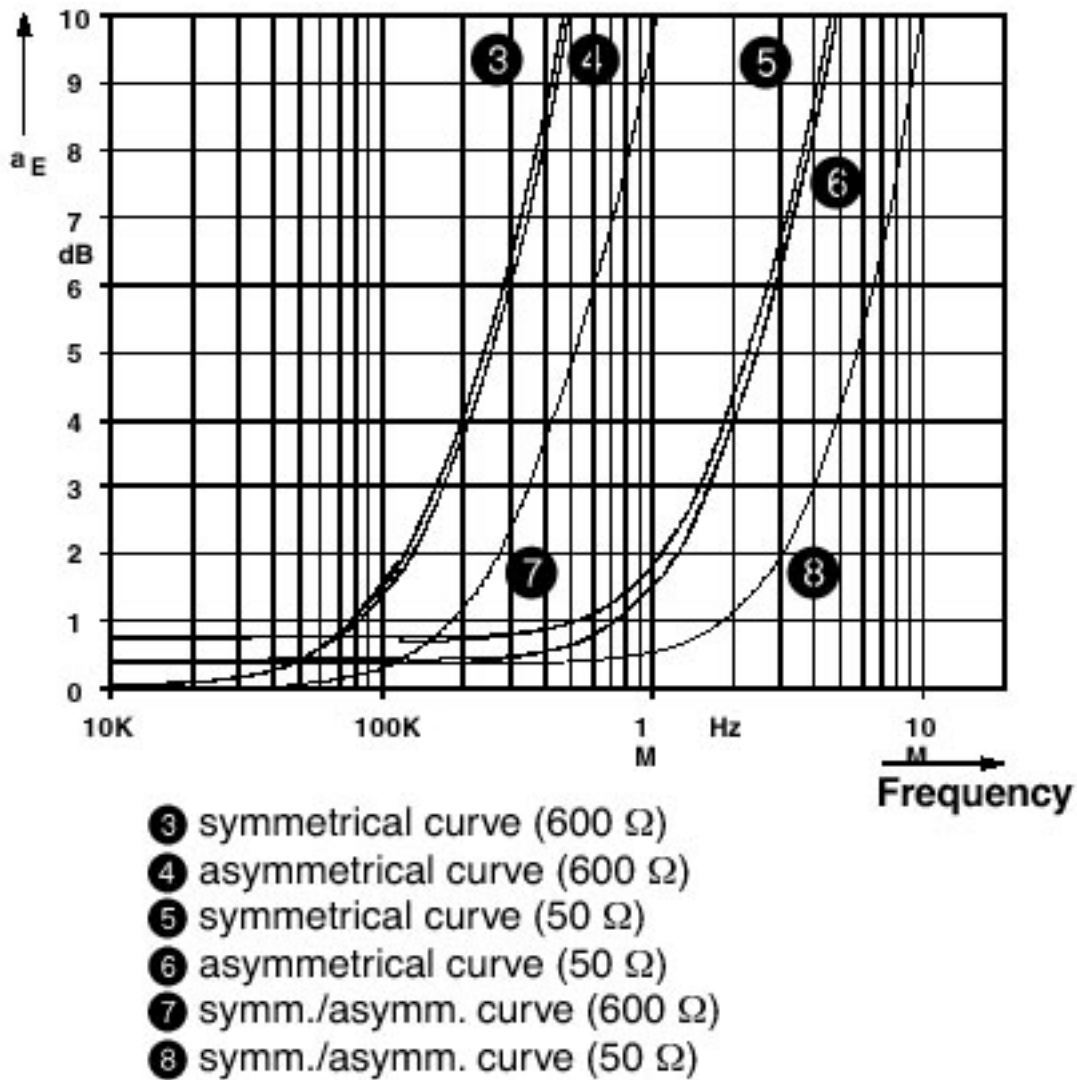
GOST 
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Drawings

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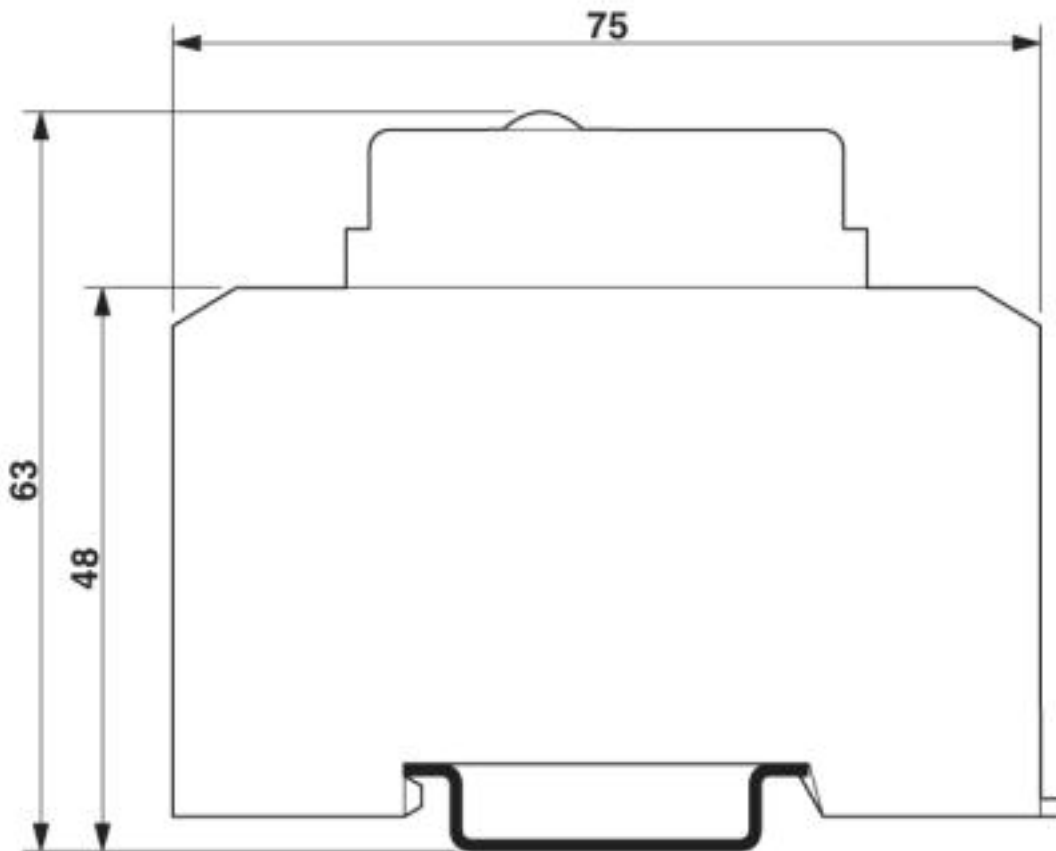
Diagram



Characteristic attenuation curve

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Dimensioned drawing



Circuit diagram

