

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

Packing unit	1
Minimum order quantity	5
Catalog page	Page 100 (TT-2002)
GTIN	 4 017918 064945
Custom tariff number	85363010
Country of origin	GERMANY

Technical data

General

Color	black
Ambient temperature (operation)	-40 °C ... 60 °C
Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Degree of protection	IP20
Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Width	47.6 mm
Height	77.5 mm
Depth	54.9 mm

Protective circuit

IEC category	C2
IEC category	C3
IEC category	D1
VDE requirement class	C2
VDE requirement class	C3

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Technical data

Protective circuit

VDE requirement class	D1
Maximum continuous voltage UC (wire-ground)	12 V DC
Nominal current IN	450 mA (25°C)
Operating effective current IC at UC	≤ 10 µA
Nominal discharge surge current In (8/20) µs (Core-Core)	10 kA
Nominal discharge surge current In (8/20) µs (Core-Earth)	10 kA
Lightning test current (10/350) µs, peak value limp	500 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 22 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 600 V
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 22 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 600 V
Output voltage limitation at 1 kV/µs (Core-GND) static	≤ 22 V
Residual voltage at In, (conductor-conductor)	≤ 19 V
Residual voltage at In, (conductor-GND)	≤ 19 V
Protection level UP (Core-Core)	≤ 22 V
Protection level UP (Core-Earth)	≤ 600 V
Protection level UP (Core-GND)	≤ 22 V
Response time tA (Core-Core)	1 ns
Response time tA (Core-Earth)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	≤ 0.1 dB (Up to 10 kHz)
Input attenuation aE, asym.	0.8 dB (up to 0.1 MHz 50 Ω system)
Input attenuation aE, asym.	0.1 dB (up to 10 kHz 600 Ω system)
Cut-off frequency fg (3 dB), asym. (GND) in 50 Ohm system	1.3 MHz
Cut-off frequency fg (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

Connection, protective circuit

Standards/regulations	IEC 61643-21
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Classifications

eclass

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

etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

unspsc

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

Approvals

Approvals

Approvals

GOST / GOST

Ex Approvals

Approvals submitted

Approval details

GOST 
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GOST 
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Accessories

Additional products

Shield connection - SSA 3-6 - 2839295



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

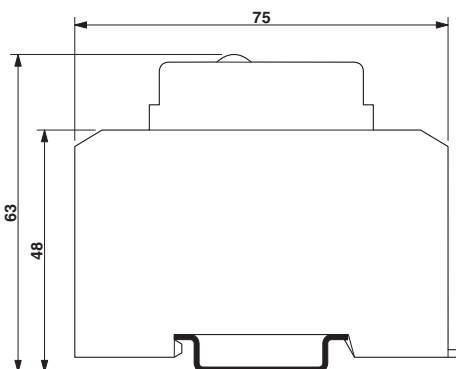
Shield connection - SSA 5-10 - 2839512



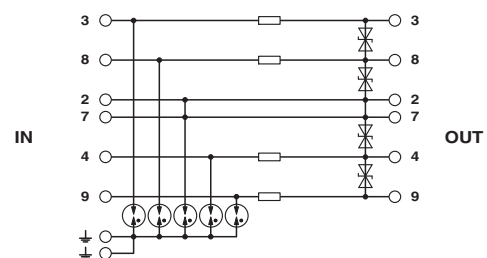
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Drawings

Dimensioned drawing

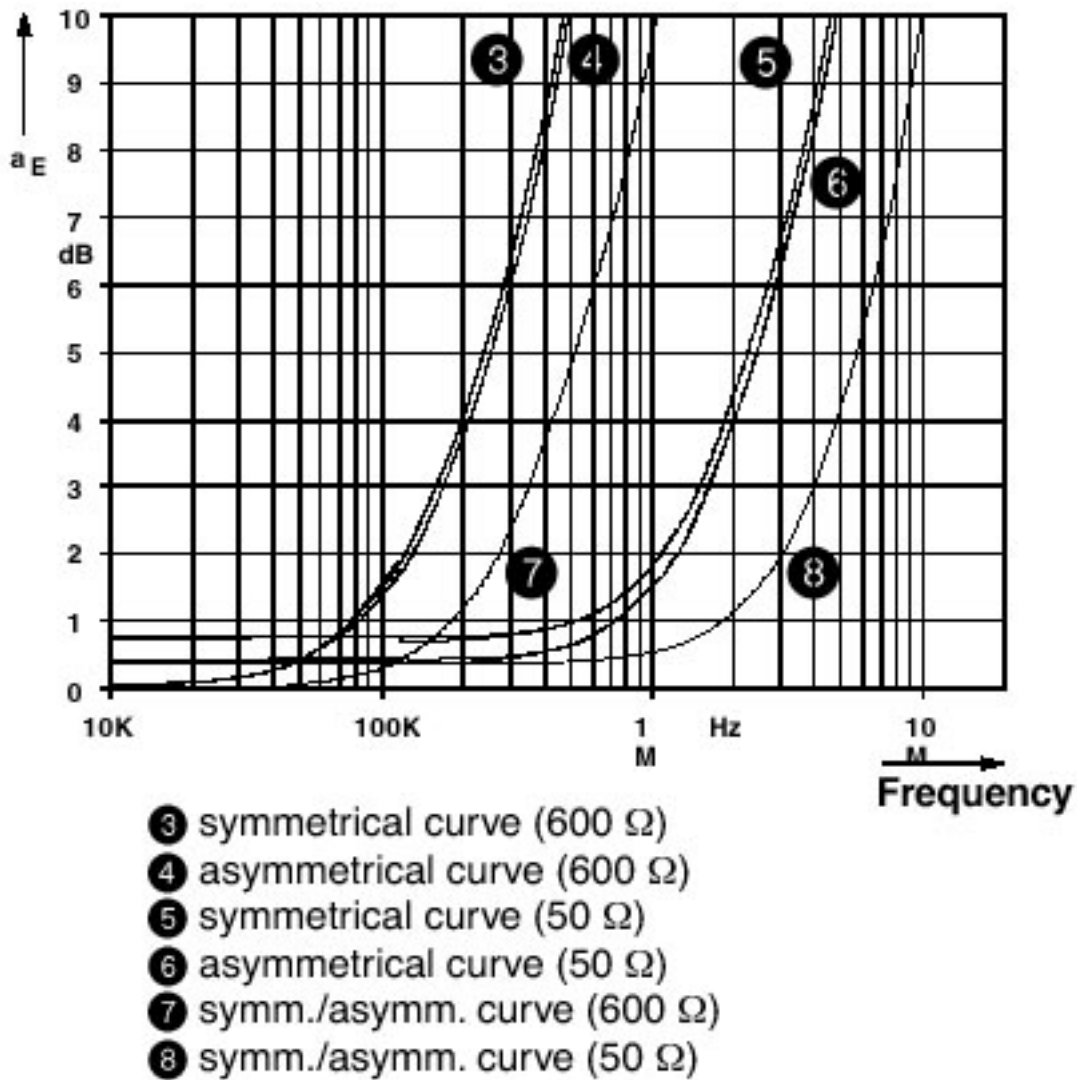


Circuit diagram



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Diagram



Characteristic attenuation curve