

## MT-RS485-TTL

Order No.: 2749398


The illustration shows version MT-RS485/S



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

### Commercial data

GTIN (EAN)	 4 017918 104962
sales group	J420
Pack	5 pcs.
Customs tariff	85363010
Catalog page information	Page 100 (TT-2002)

### Product notes

WEEE/RoHS-compliant since:  
04/27/2006



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### Technical data

#### General

Color	black
Ambient temperature (operation)	-40 °C ... 80 °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	47.60 mm
Height	54.90 mm
Length	77.50 mm

**Protective circuit**

IEC category	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Nominal voltage $U_N$	5 V DC
Maximum continuous voltage $U_c$ (wire-ground)	5.8 V DC
Nominal current $I_N$	450 mA (25°C)
Operating effective current $I_c$ at $U_c$	$\leq 2$ mA
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Core)	10 kA
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Earth)	10 kA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Core)	10 kA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth)	10 kA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (Core-GND)	10 kA
Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) spike	$\leq 9$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike	$\leq 450$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static	$\leq 9$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) static	$\leq 450$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-GND) static	$\leq 9$ V
Residual voltage at $I_n$ , (conductor-conductor)	$\leq 9$ V
Residual voltage at $I_n$ , (conductor-GND)	$\leq 9$ V

Protection level $U_p$ (Core-Core)	$\leq 9$ V
Protection level $U_p$ (Core-Earth)	$\leq 450$ V
Protection level $U_p$ (Core-GND)	$\leq 9$ V
Response time $t_A$ (Core-Core)	1 ns
Response time $t_A$ (Core-Earth)	$\leq 1$ ns
	$\leq 100$ ns
Input attenuation $a_E$ , sym.	Typ. 0.1 dB (up to 40 kHz 150 $\Omega$ system)
	Typ. 0.1 dB (Up to 10 kHz)
Input attenuation $a_E$ , asym.	0.5 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. (GND) in 50 Ohm system	600 kHz
Cut-off frequency $f_g$ (3 dB), asym. (GND) in 150 Ohm system	200 kHz
Cut-off frequency $f_g$ (3 dB), asym. (GND) in 600 Ohm system	50 kHz
Resistance in series	4.4 $\Omega$

**Connection data**

Type of connection	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 <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

**Connection, protective circuit**

Standards/regulations	Draft IEC 64644-1
	E VDE 0845-3-1

**Certificates / Approvals**



Certification

GOST

**Additional products**

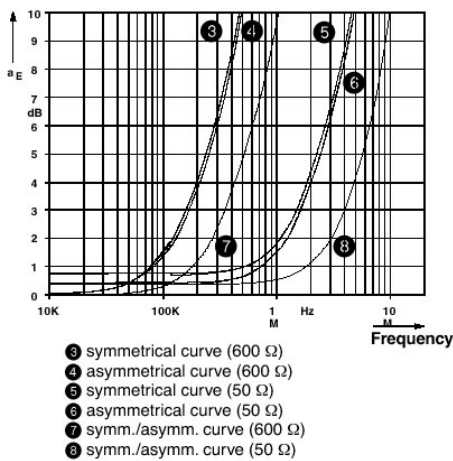
Item                      Designation                      Description

**Assembly**

2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

**Diagrams/Drawings**

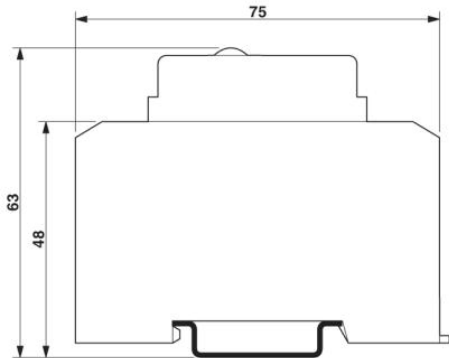
Diagram



Characteristic attenuation curve

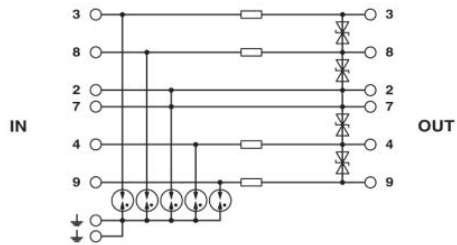
Dimensioned drawing

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Circuit diagram

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**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



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