

MT-RS485 - Surge protection device



2762265

<https://www.phoenixcontact.com/us/products/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 | 5 pc |
| Sales key | CL03 |
| Product key | CL3132 |
| Catalog page | Page 100 (TT-2002) |
| GTIN | 4017918064945 |
| Weight per piece (including packing) | 118.126 g |
| Weight per piece (excluding packing) | 101.952 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |

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Technical data

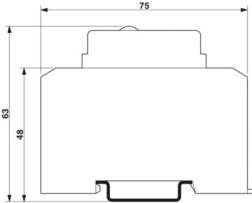
Product properties

| | |
|--------------------------------|---|
| IEC test classification | C2 |
| | C3 |
| | D1 |
| VDE requirement class | C2 |
| | C3 |
| | D1 |
| Type | DIN rail module, one-piece |
| Product type | Surge protection for information technology |
| 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 mm² ... 2.5 mm² |
| Conductor cross section rigid | 0.2 mm² ... 4 mm² |
| 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) |
|-------|------------------|

Mechanical properties

Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Protective circuit

| | |
|---------------------|---|
| Direction of action | Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground |
|---------------------|---|

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| | |
|--|---|
| Maximum continuous voltage U_C | 12 V DC |
| Rated current | 450 mA (25 °C) |
| Operating effective current I_C at U_C | $\leq 10 \mu A$ |
| Nominal discharge current I_n (8/20) μs (line-line) | 10 kA |
| Nominal discharge current I_n (8/20) μs (line-ground) | 10 kA |
| Pulse discharge current I_{imp} (10/350) μs | 500 A |
| Output voltage limitation at 1 kV/ μs (line-line) spike | $\leq 22 V$ |
| Output voltage limitation at 1 kV/ μs (line-earth) spike | $\leq 600 V$ |
| Output voltage limitation at 1 kV/ μs (line-line) static | $\leq 22 V$ |
| Output voltage limitation at 1 kV/ μs (line-earth) static | $\leq 600 V$ |
| Output voltage limitation at 1 kV/ μs (line-signalground) static | $\leq 22 V$ |
| Residual voltage at I_n (conductor-conductor) | $\leq 19 V$ |
| Residual voltage at I_n (line-signalground) | $\leq 19 V$ |
| Voltage protection level U_p (line-line) | $\leq 22 V$ |
| Voltage protection level U_p (line-earth) | $\leq 600 V$ |
| Voltage protection level U_p (line-signalground) | $\leq 22 V$ |
| Response time t_A (line-line) | 1 ns |
| Response time t_A (line-earth) | $\leq 100 ns$ |
| Response time t_A (line-signalground) | $\leq 1 ns$ |
| Input attenuation aE, sym. | $\leq 0.1 dB$ (up to 10 kHz) |
| Input attenuation aE, asym. | 0.8 dB (up to 0.1 MHz 50 Ω system) |
| | 0.1 dB (up to 10 kHz 600 Ω system) |
| Cut-off frequency f_g (3 dB), asym. (signal ground) in 50 Ω system | 1.3 MHz |
| Cut-off frequency f_g (3 dB), asym. (signal ground) in 600 Ω system | 130 kHz |
| Resistance per path | 4.4 Ω |
| 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 |

Mounting

| | |
|---------------|-----------------|
| Mounting type | DIN rail: 35 mm |
|---------------|-----------------|

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27130807 |
| ECLASS-13.0 | 27171503 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001466 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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