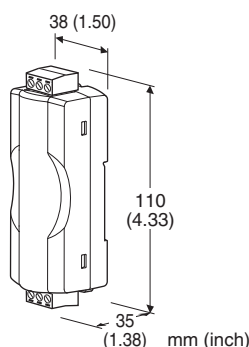


Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR SINGLE PAIR ETHERNET (PoDL)

Functions & Features

- Designed specifically for Ethernet network
- Conforms with PoDL
- Cables' shield wire can be floating or grounding by a shortcircuit bar
- Compact and light weight
- DIN rail mounting



MODEL: MDCAT-SPE[1]

ORDERING INFORMATION

- Code number: MDCAT-SPE[1]
- Specify a code from below for [1].
(e.g. MDCAT-SPE/DR/Q)
- Specify the specification for option code /Q
(e.g. /C01)

[1] OPTIONS (multiple selections)

Single mount DIN rail

blank: Without

/DR: With single mount DIN rail

Other Options

blank: none

/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)

/C01: Silicone coating

/C02: Polyurethane coating

/C03: Rubber coating

CAUTION

- When this unit is earthed via a DIN rail, use a steel or copper rail. Oxide film on the surface of an aluminium rail may lower the electric conductivity between this module and the ground.
- Single mount DIN rail for option code '/DR' is made of aluminum. Connect to ground with ground terminal when this DIN rail is used.

APPLICABLE NETWORK

10 BASE-T1L: IEEE 802.3cg

PoDL: IEEE802.3bu

GENERAL SPECIFICATIONS

Connection

Network: Euro type connector terminal
(Applicable wire size: 0.2 - 2.5 mm²)

Grounding: M3 screw terminal (torque 0.6 N·m)
or via DIN rail

Screw terminal: Nickel-plated brass

DIN rail material: Aluminum

Housing material: Flame-resistant resin (black)

INSTALLATION

Operating temperature: -25 to +85°C (-13 to +185°F)

Operating humidity: 10 to 95 % RH (non-condensing)

Mounting: DIN Rail (TH35-7.5, 1-mm-thick)

Weight: 70 g (2.5 oz)

PERFORMANCE

Max. continuous operating voltage (Uc)

- ± 60 V

Voltage protection level

- ≤ 600 V (line to earth)

Leakage current (@Uc)

- 5 µA

Nominal current (I_n): 1.5 A

Impulse durability

- C2 (8/20 µsec.): 5 kA
- D1 (10/350 µsec.): 1 kA

Series resistance: approx. 0 Ω

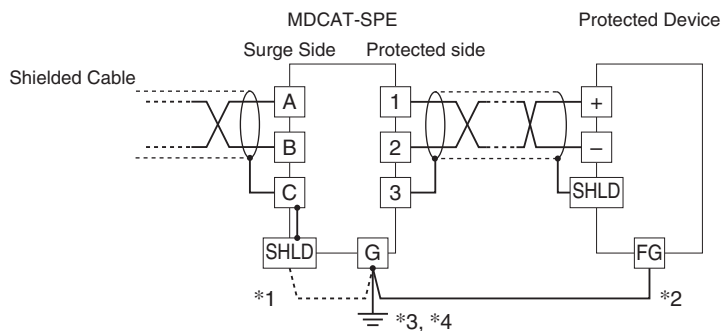
Insertion loss: ≤ 0.3 dB (DC - 10 MHz)

Surge protection: IEC 61643-21 Categories C2, D1

STANDARDS & APPROVALS

RoHS Directive

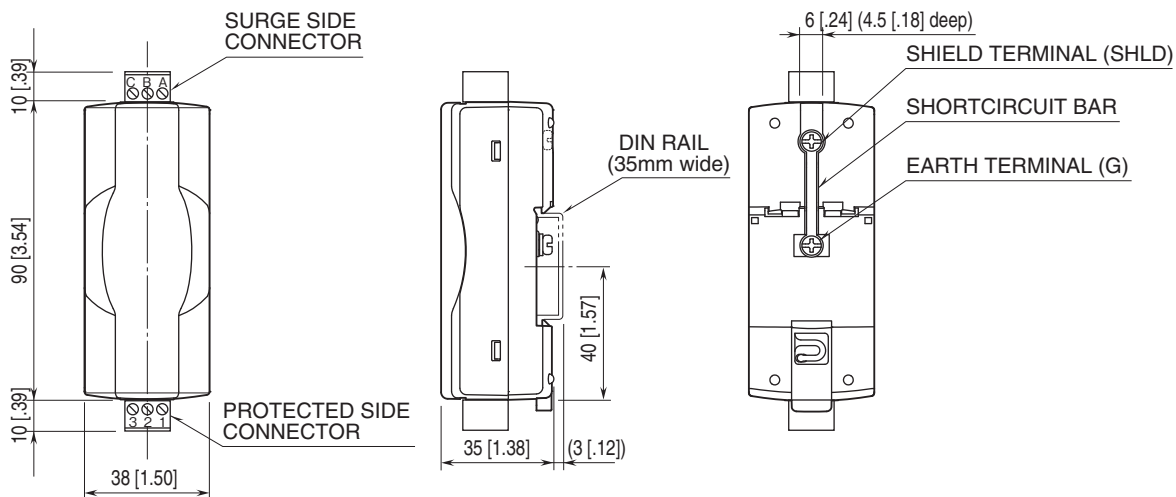
CONNECTION EXAMPLES



- *1. Use shortcircuit bar to ground the shield.
- *2. If the protected device has an FG terminal, connect to the G terminal of the MDCAT-SPE.
- *3. Use a DIN rail made of steel or copper when connecting to ground via the DIN rail.
- *4. Single mount DIN rail for option code 'DR' is made of aluminum. Connect to ground with ground terminal when this DIN rail is used.

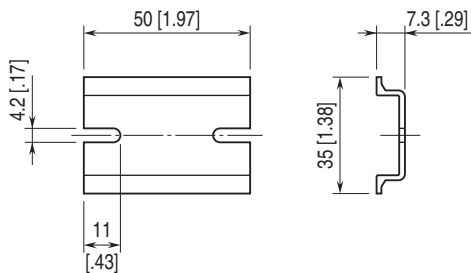
EXTERNAL DIMENSIONS unit: mm [inch]

UNIT

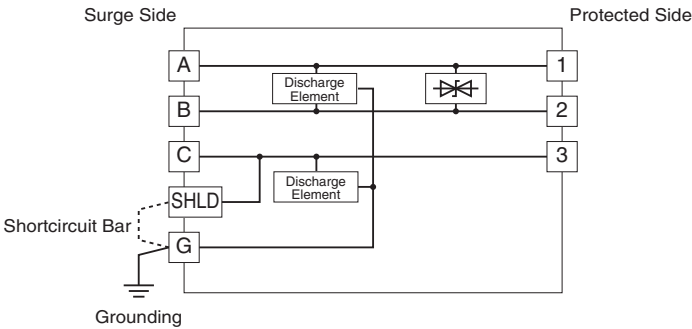


- When mounting, no extra space is needed between units.

DIN RAIL



SCHEMATIC CIRCUITRY



Specifications are subject to change without notice.