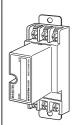
Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR RS-485 / RS-422

Functions & Features

- Designed specifically for the network
- No interruption of transmission signal by unplugging the head element module



MODEL: MDP-4R[1]

ORDERING INFORMATION

• Code number: MDP-4R[1] Specify a code from below for [1]. (e.g. MDP-4R/A33)

[1] OPTIONS

DIN Rail Mounting Adapter blank: Without /A33: With adapter (model A-33)

GENERAL SPECIFICATIONS

Construction: Plug-in Connection: M4 screw terminals (torque 0.8 N·m) Screw terminal: Nickel-plated steel Housing material: Flame-resistant resin (black)

INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Surface or DIN rail Weight: 100 g (0.22 lb), standard; 125 g (0.28 lb), with DIN rail mounting adapter

PERFORMANCE

Max. continuous operating voltage (Uc): B to C: ±5 V min B or C to A: 5 V min Line to earth: ±140 V min Voltage protection level (Up):



• @ 2 kV (1 kA) 2 to 3: ±20 V max. 2 or 3 to 1: 20 V max. Line to earth: ±500 V max. Response time: Line to line: \leq 4 nsec. Line to earth: \leq 20 nsec. Leakage current: B to C: \leq 0.2 mA @ ±5 V DC B or C to A: \leq 0.2 mA @ 5 V DC Line to earth: \leq 10 μ A @ ±140 V DC Max. discharge current (Imax): 5000 A (8 / 20 µs) Nominal current (IN): 100 mA Internal series resistance: Approx. 4.5 Ω including return Capacitance @ 1 MHz: Line to line: \leq 1000 pF Line to earth: \leq 100 pF Input attenuation: -0.5 dB or less @ DC to 2.0 MHz, Zo =

STANDARDS & APPROVALS

110 Ω

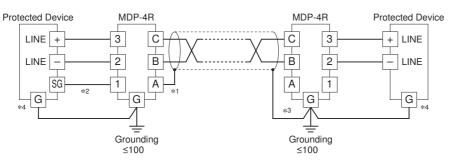
Surge protection: IEC 61643-21: 2000 (Categories C1, C2)

幸託有限公司 TEL: (02) XIN TOP CORPORATION FAX: (02)

TEL : (02)2598-1199 E-mail : info@xintop.com FAX : (02)2596-2331 Website : www.xintop.com

CONNECTION EXAMPLES

Example: Protected devices have no SG terminals



*1. Leave Terminal A when the shielded twisted-pair cable is not provided.

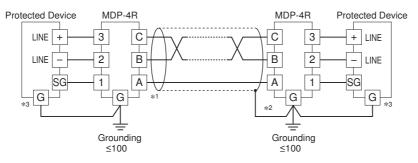
*2. Leave Terminal 1 when the protected device has no SG (Signal Ground) terminal.

*3. Cross wire to the surge protector's G terminal when grounding the shield wire.

*4. Cross-over wire between G terminals of the surge protector and the protected device is required.

Ground only the surge protector if the protected device has no G terminal.

Example: Each SG terminal is connected with triplex cable

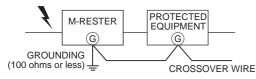


*1. Provide electrical insulation with insulating tape and the like so that the live part is not exposed, as over voltage may generate on the shield wire.

*2. Cross wire to the surge protector's G terminal when grounding the shield wire.

*3. Cross-over wire between G terminals of the surge protector and the protected device is required. Ground only the surge protector if the protected device has no G terminal.

GROUNDING



A crossover wire between M-RESTER ground and the ground or metallic housing of the equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only

When the M-RESTER is mounted with DIN Rail Mounting Adapter, connect the grounding wire to the mounting screw of the M-RESTER.

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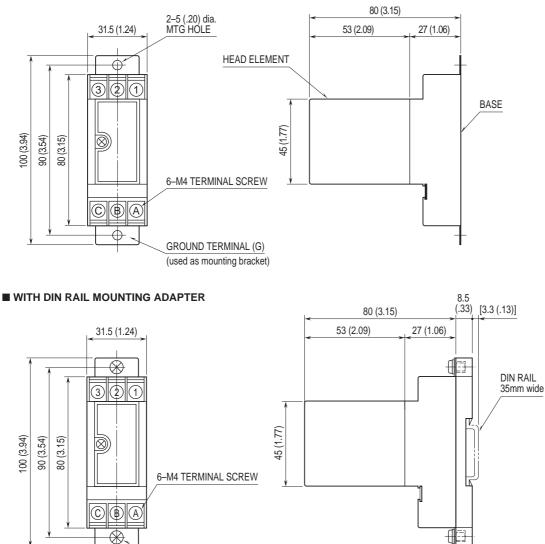
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EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)





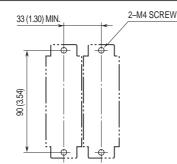
MOUNTING REQUIREMENTS unit: mm (inch)

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2-M4 MOUNTING SCREW

(used as ground terminal (G))

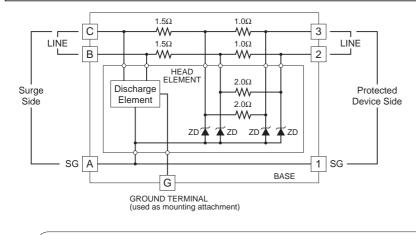




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SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.





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