Lightning Surge Protectors for Electronics Equipment M-RESTER

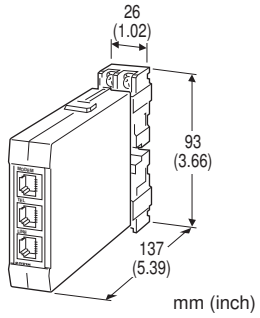
LIGHTNING SURGE PROTECTOR FOR TELECOMMUNICATION LINE USE

Functions & Features

• Designed specifically to protect telecommunication equipment from lightning surges entering through telecommunication line network

• Easy connection with protected equipment with modular jacks

• Connection with a telephone and a modem in parallel



MODEL: MD-TL

ORDERING INFORMATION

• Code number: MD-TL

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection:

Line: Modular jack

Grounding: M3.5 screw terminals (torque 0.8 N·m)

Modular jack cord: 6-pole, 2-core

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; Standard Rack Mounting Frame BX-16H available

Weight: 150 g (0.33 lb)

PERFORMANCE

Discharge voltage (peak voltage)

Line to line: ±270 V min.

Line to ground: ±350 V max.

Maximum surge voltage

Line to line: ±650 V max.

Line to ground: ±900 V max.

(The maximum voltage that could pass through M-RESTER. Protected equipment must be able to withstand this voltage for very short time period.)

Response time: ≤ 0.1 µsec.

Leakage current:

Line to line: ≤ 100 µA @ ±160 V DC

Line to ground: ≤ 100 µA @ ±160 V DC

Discharge current capacity: 1000 A (8 / 20 µsec.)

(Modular jack contact welding is out of the scope of this protection. (The surge protector still works even when welding.))

Maximum load current: 500 mA

Internal series resistance: Approx. 0.1 Ω including return

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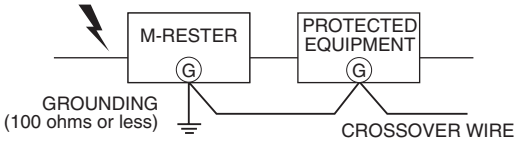
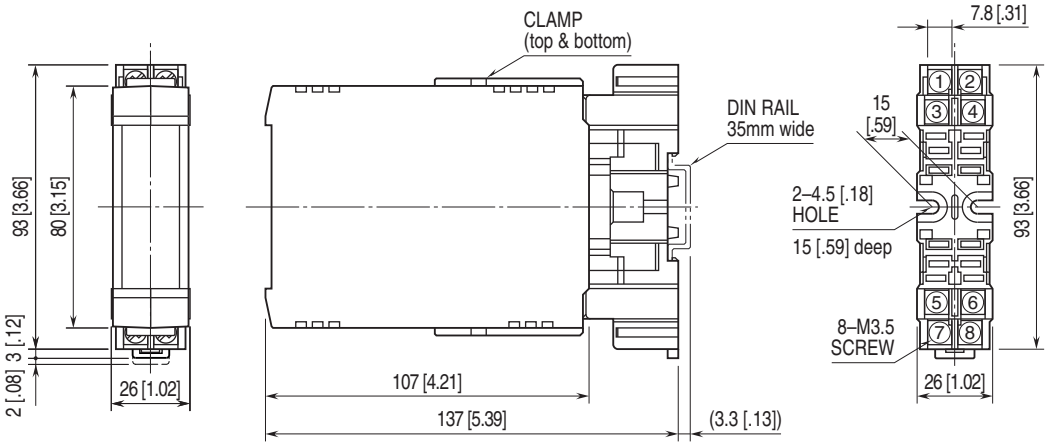
GROUNDING



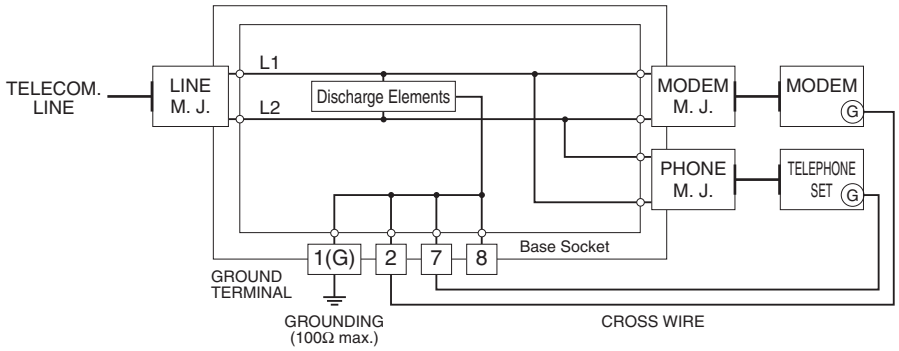
A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.
If the protected equipment has no ground terminal, ground the M-RESTER only.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Be sure to cross-wire between G terminals of modem / telephone set and the terminals 2 & 7 of the MD-TL.

⚠ Specifications are subject to change without notice.

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