## Lightning Surge Protectors for **Electronics Equipment M-RESTER**

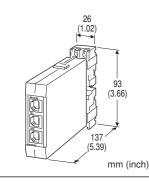
# LIGHTNING SURGE PROTECTOR FOR TELECOMMUNICATION LINE USE

#### 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 lbs)

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### 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**:  $\leq 0.1 \, \mu \text{sec.}$ 

#### Leakage current:

Line to line:  $\leq$  100  $\mu$ A @ ±160 V DC

Line to ground:  $\leq$  100  $\mu$ A @ ±160 V DC

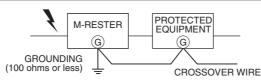
Discharge current capacity: 1000 A (8 / 20 µsec.) (Modular jack contact welding is out of the scope of this protection. (The surge protector still works even when welding.))

Maximum load current: 500 mA

Internal series resistance: Approx. 0.1  $\Omega$  including return

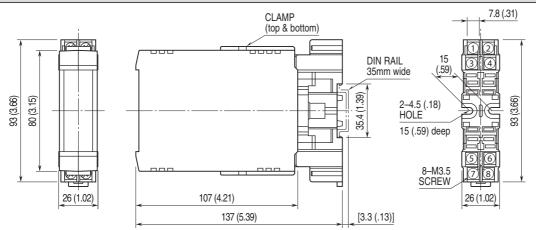
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#### GROUNDING



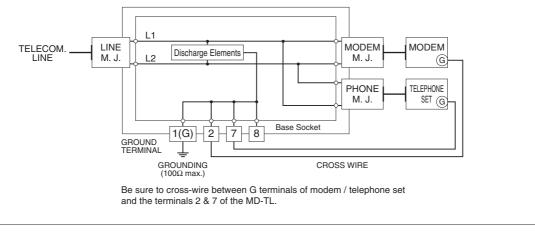
A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only.

#### **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)**



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

# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



Specifications are subject to change without notice.

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