Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY USE

(10 A, 100 / 110 / 120 V AC)

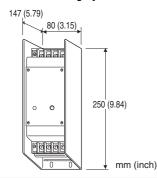
Functions & Features

• Designed specifically for power requirements of medium capacities

- Protecting electronic equipment from lightning surges that
- enter through substations and step-down transformersDischarge element failure triggers the fuse blown and alarm contact closed
- Also effective in rejecting switching transients generated by thyristors, circuit breakers, motor starters, etc.

Typical Applications

- Control panels
- Telemetering systems



MODEL: MH-110A

ORDERING INFORMATION

Code number: MH-110A

GENERAL SPECIFICATIONS

Connection: M4 screw terminals (torque 1.6 N·m) **Screw terminal**: Nickel-plated brass **Housing material**: Steel plate t = 1.6 (black) **Alarm indicator:** Discharge element failure indicator turns white when the fuse is blown.

Monitor lamp: Green neon lamp turns on when the power is supplied.

Alarm relay contact: Turns ON with discharge element

failure (when the fuse is blown)

•Rated load: 100 V AC @ 250 mA (cos ø = 1)

- 100 V DC @ 250 mA (resistive load)
- •Maximum switching voltage: 125 V AC or 125 V DC
- •Maximum switching power: 25 VA or 25 W
- •Minimum load: 5 V DC @ 10 mA

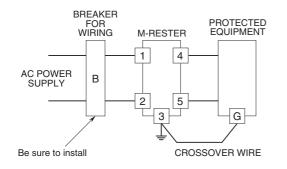
INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Surface Weight: 3.0 kg (6.6 lb)

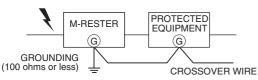
PERFORMANCE

Discharge voltage (peak voltage) Line to line: 190 V min. Line to ground: 410 V min. Maximum surge voltage Line to line: 350 V max. Line to ground: 700 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**: $\leq 0.1 \ \mu sec$. Leakage current Line to line: \leq 1 mA at 150 V DC Line to ground: $\leq 1 \text{ mA}$ at 300 V DC Discharge current capacity: 10000 A (8/ 20 µsec.) Maximum load current: 10 A Voltage drop: $\leq 2 \vee (50/60 \text{ Hz})$ Rated line voltage: 100 V / 110 V / 120 V AC

CONNECTION EXAMPLES

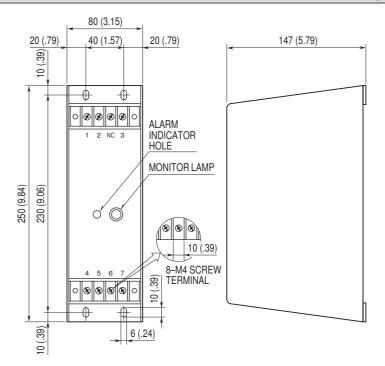


GROUNDING

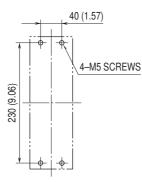


A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only.

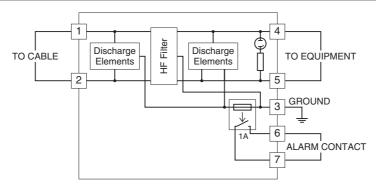
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT unit: mm [inch]



MOUNTING REQUIREMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY





Specifications are subject to change without notice.