Lightning Surge Protectors for Electronics Equipment M-RESTER

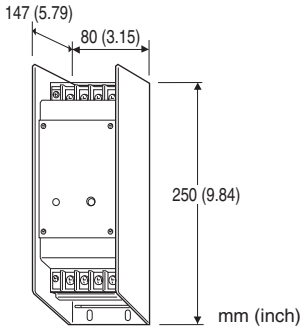
LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY USE
(10 A, 100 / 110 / 120 V AC)

Functions & Features

• Designed specifically for power requirements of medium capacities
• Protecting electronic equipment from lightning surges that enter through substations and step-down transformers
• Discharge 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

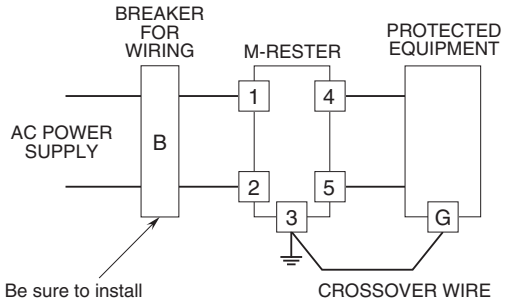
INSTALLATION

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)

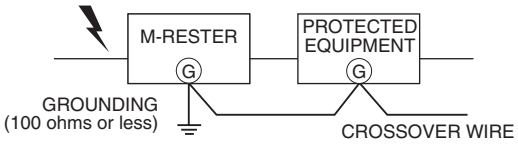
PERFORMANCE

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: ≤ 0.1 µsec.
Leakage current
Line to line: ≤ 1 mA at 150 V DC
Line to ground: ≤ 1 mA at 300 V DC
Discharge current capacity: 10000 A (8/ 20 µsec.)
Maximum load current: 10 A
Voltage drop: ≤ 2 V (50/60 Hz)
Rated line voltage: 100 V / 110 V / 120 V AC

CONNECTION EXAMPLES

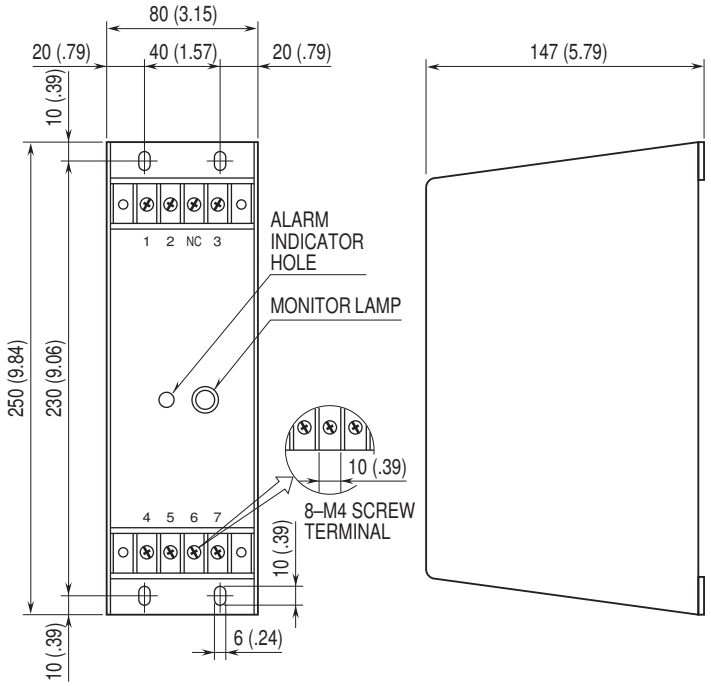


GROUNDING

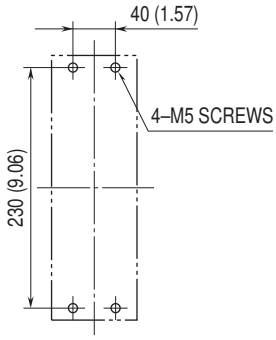


A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.
If the protected equipment has no ground terminal, ground the M-RESTER only.

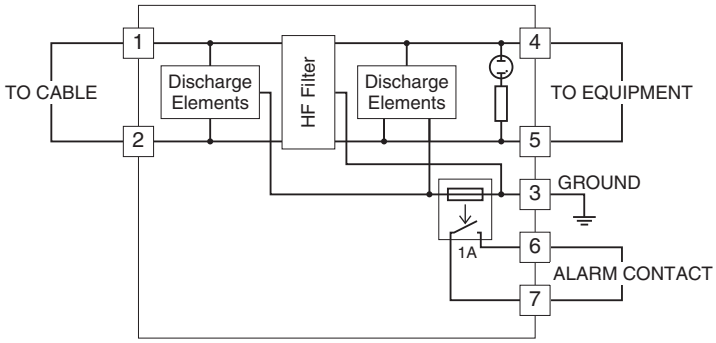
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT unit: mm (inch)



MOUNTING REQUIREMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY



⚠ Specifications are subject to change without notice.

M-SYSTEM CO., LTD.
http://www.m-system.co.jp/