MODEL: MH-130A

Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY USE

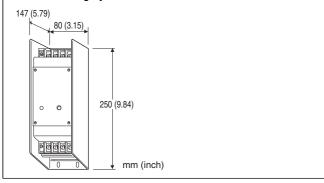
(30 A, 100 V / 110 V / 120 V AC)

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



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ORDERING INFORMATION

• Code number: MH-130A

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: 3.7 kg (8.16 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: ≤ 1 mA at 150 V DC Line to ground: ≤ 1 mA at 300 V DC

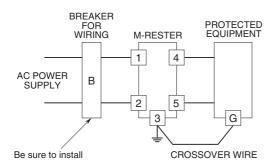
Discharge current capacity: 10000 A (8/ 20 µsec.)

Maximum load current: 30 A Voltage drop: ≤ 2 V (50/60 Hz)

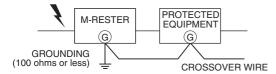
Rated line voltage: 100 V / 110 V / 120 V AC

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CONNECTION EXAMPLES

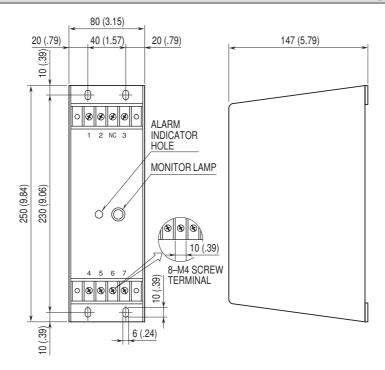


GROUNDING



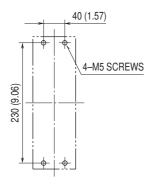
A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT unit: mm [inch]

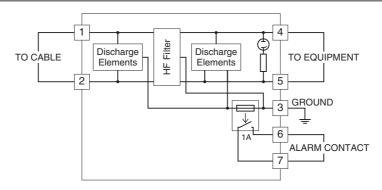


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MOUNTING REQUIREMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY



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Specifications are subject to change without notice.