

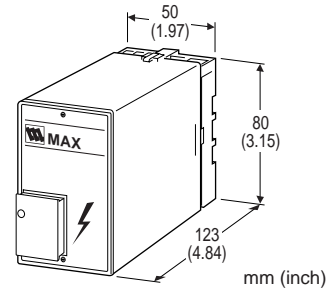
Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY USE
(5A; high discharge current capacity)

MODEL **MAX**

MODEL & SUFFIX CODE SELECTION

MODEL _____ MAX-□
 LINE VOLTAGE _____
100 : 100V/110V/120V AC, 5A
200 : 200V/220V/240V AC, 5A



Functions & Features

- Designed specifically for AC power supplies up to 5 amps
- Discharge current capacity 10000A
- Absorbing surges only without affecting instrumentation signal
- No power supply interruption even when the surge absorber is broken
- Relay contact turns ON with surge absorber failure
- Surge absorber element replaceable without power interruption

Typical Applications

- High discharge current capacity is beneficial for use in area with frequent lightnings

ORDERING INFORMATION

Specify code number. (e.g. MAX-100)

RELATED PRODUCTS

- Lightning arrester for standard signal line (model: MMD-24)
- Surge absorber element (model: MEL)

GENERAL SPECIFICATIONS

Construction: plug-in
Connection: M3.5 screw terminals (chromated steel; torque ≤ 0.8 N·m)
Housing material: flame-resistant resin (black)
Alarm contact: turns ON with surge absorber failure (when the fuse is blown or when the surge absorber element is extracted.)
Rating: 30V DC @1A (resistive load)
Maximum switching voltage: 220V AC
Maximum switching power: 100VA
Minimum load: 5V DC @1mA
Alarm indicator: surge absorber failure indicator turns white when the fuse is blown.

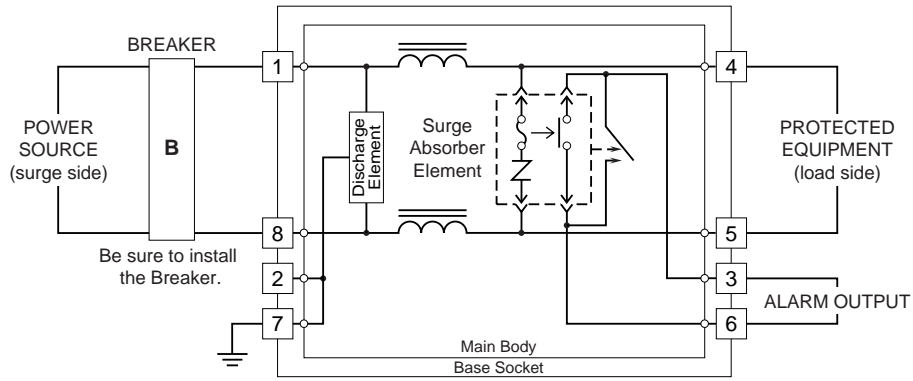
INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90% RH (non-condensing)
Mounting: surface or DIN rail
Dimensions: W50×H80×D130 mm (1.97"×3.15"×5.12")
Weight: 470 g (1.04 lbs)

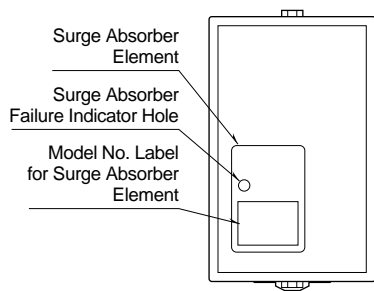
PERFORMANCE

Discharge voltage (peak-to-peak)
Between lines: 190V min. (MAX-100)
 410V min. (MAX-200)
Line to ground: 680V min.
Maximum surge voltage*
Between lines: 350V max. (MAX-100)
 700V max. (MAX-200)
Line to ground: 800V max.
 (Withstand voltage of protected equipment between circuit and metal housing must be 1000V AC or more.
 *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: ≤ 0.01 microseconds
Discharge current capacity: 10000A (8 / 20 μ sec.)
Maximum load current: 5A
Internal series resistance: $\leq 0.5\Omega$ including return
Leakage current
Between lines: ≤ 1 mA at 150V DC (MAX-100)
 ≤ 1 mA at 300V DC (MAX-200)
Line to ground: ≤ 1 mA at 300V DC

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

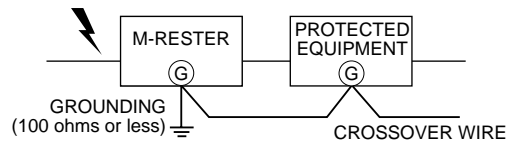


FRONT PANEL CONFIGURATION

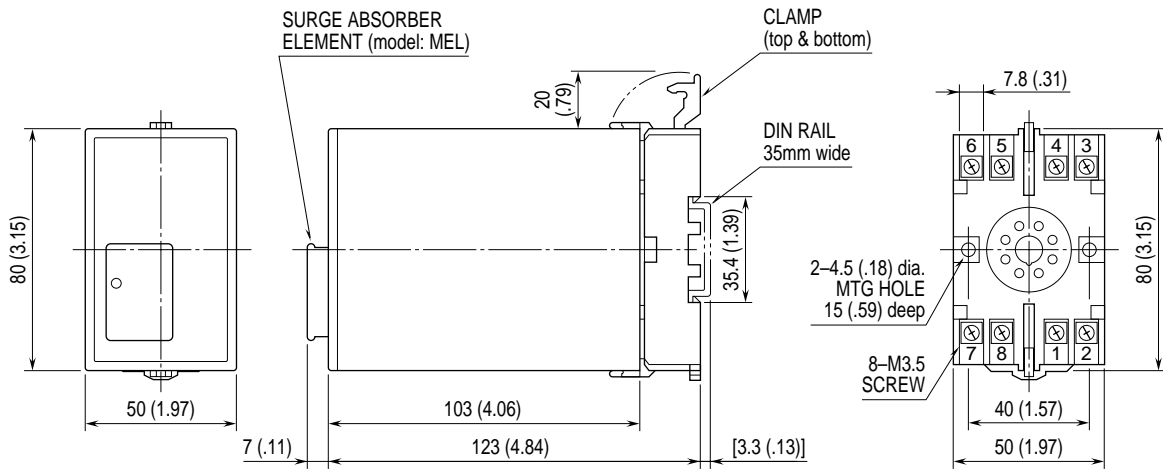


GROUNDING

A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)



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