

Lightning Surge Protectors for Electronics Equipment *M-RESTER*
**LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY USE
(2A)**
**MODEL MA-100
 MA-200**
MODEL & SUFFIX CODE SELECTION
MA-100 ☐
MA-200 ☐
MODEL _____

MA-100 : 2A, 100V/110V/120V AC line voltage use

MA-200 : 2A, 200V/220V/240V AC line voltage use

OPTIONS _____

/CE: CE marking

ORDERING INFORMATION

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

GENERAL SPECIFICATIONS
Construction: plug-in

Connection: M3.5 screw terminals
(chromated steel; torque ≤ 0.8 N·m)

Housing material: flame-resistant resin (black)

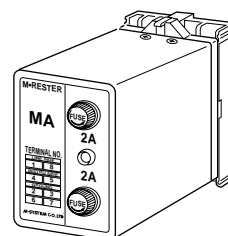
Monitor lamp: green neon lamp turns on when
power is supplied.

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×H85×D119.5 mm
(1.97"×3.35"×4.70")

Weight: 330 g (0.73 lbs)

Functions & Features

- Designed specifically for AC power supplies up to 2 amps
- No degradation of normal (50/60 Hz) line frequency
- Power indicator lamp provided

PERFORMANCE
Discharge voltage (peak-to-peak)
Between lines: 190V min. (MA-100)

410V min. (MA-200)

Line to ground: 410V min.

Maximum surge voltage (peak-to-peak)*
Between lines: 350V max. (MA-100)

700V max. (MA-200)

Line to ground: 700V 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 microseconds

Discharge current capacity: 1000A (8 / 20 μ sec.)

Maximum load current: 2A

Voltage drop: ≤ 2 V (50/60 Hz)

Leakage current
Between lines: ≤ 1 mA at 150V DC (MA-100)

 ≤ 1 mA at 300V DC (MA-200)

Line to ground: ≤ 1 mA at 300V DC

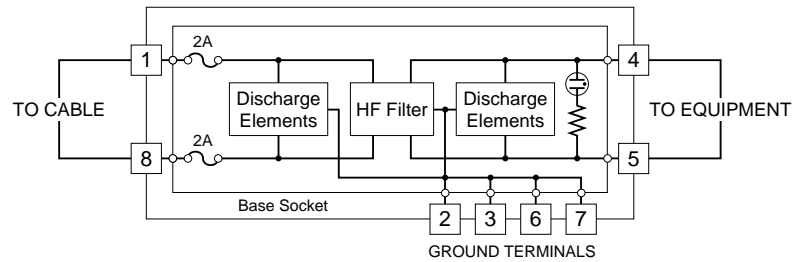
Rated line voltage:

100V/110V/120V AC (MA-100)

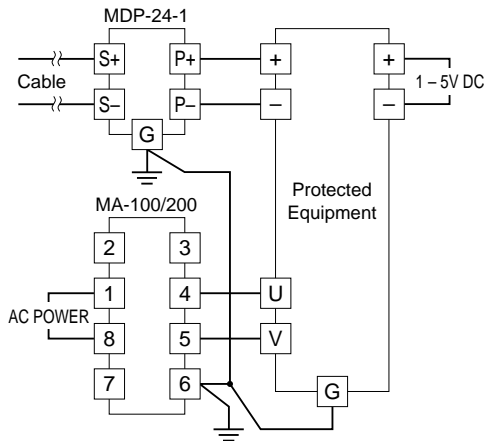
200V/220V/240V AC (MA-200)

CE conformity (Europe): 89/336/EEC. Electromagnetic Compatibility (EMC) Directive

SCHEMATIC CIRCUITRY



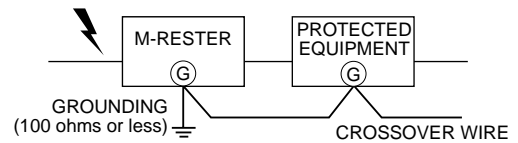
CONNECTION DIAGRAM



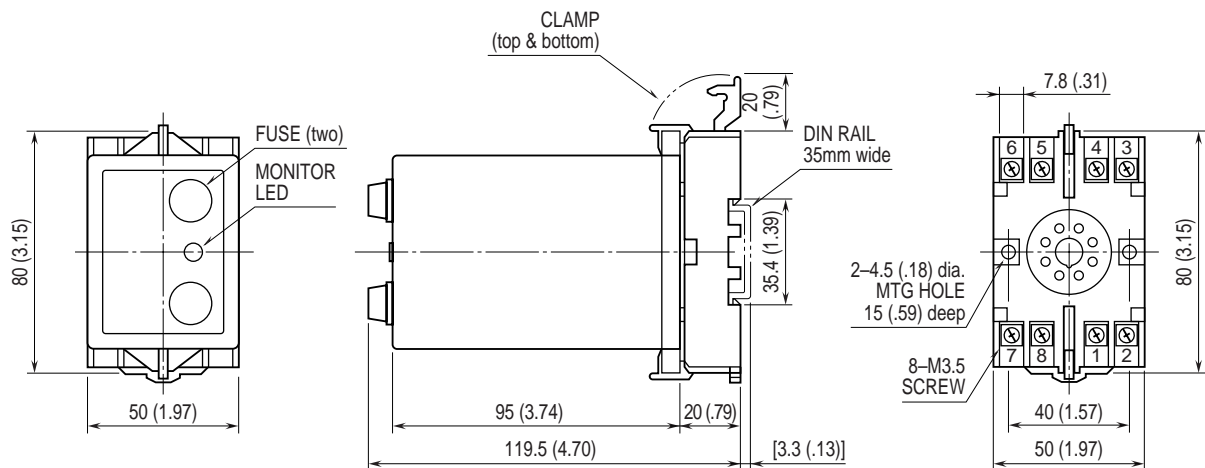
Ground one of the terminals 2, 3, 6 and 7.

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.