

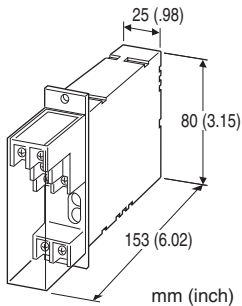
## Lightning Surge Protectors for Electronics Equipment M-RESTER

### LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY USE

2 A, 120 V AC / 170 V DC; rack-mounted)

#### Functions & Features

- Designed specifically for AC/DC power supplies up to 2 amps
- Rack-mounted
- Two channels in one housing



Line to ground: 800 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:**  $\leq 0.1 \mu\text{sec}$ .

#### Leakage current

Line to line:  $\leq 2 \text{ mA}$  at 150 V DC

Line to ground:  $\leq 1 \text{ mA}$  at 300 V DC

**Max. discharge current (I<sub>max</sub>):** 1000 A (8/ 20  $\mu\text{sec}$ .)

**Max. load current:** 2 A

**Rated line voltage:** 120 V AC, 170 V DC

## MODEL: MGA-100

### ORDERING INFORMATION

- Code number: MGA-100

### GENERAL SPECIFICATIONS

**Construction:** Rack-mounted; terminal access via screw terminals at the front; terminal cover provided

**Connection:** M3.5 screw terminals (torque 0.8 N·m)

**Screw terminal:** Nickel-plated steel

**Housing material:** Flame-resistant resin (black)

**Monitor lamp:** Red on when the power is supplied.

### INSTALLATION

**Operating temperature:** -5 to +55°C (23 to 131°F)

**Operating humidity:** 30 to 90 %RH (non-condensing)

**Mounting:** Rack-mounted; Standard Rack Mounting Frame BX-16G available

**Weight:** 200 g (0.44 lbs)

### PERFORMANCE

**Discharge voltage (peak voltage)**

Line to line: 190 V min.

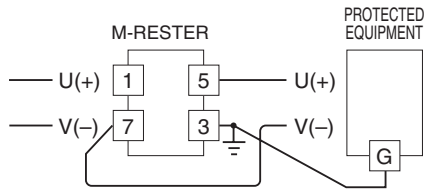
Line to ground: 410 V min.

**Maximum surge voltage**

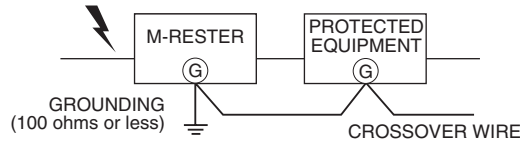
Line to line: 400 V max.

## CONNECTION EXAMPLES

Connection example with Ch.1

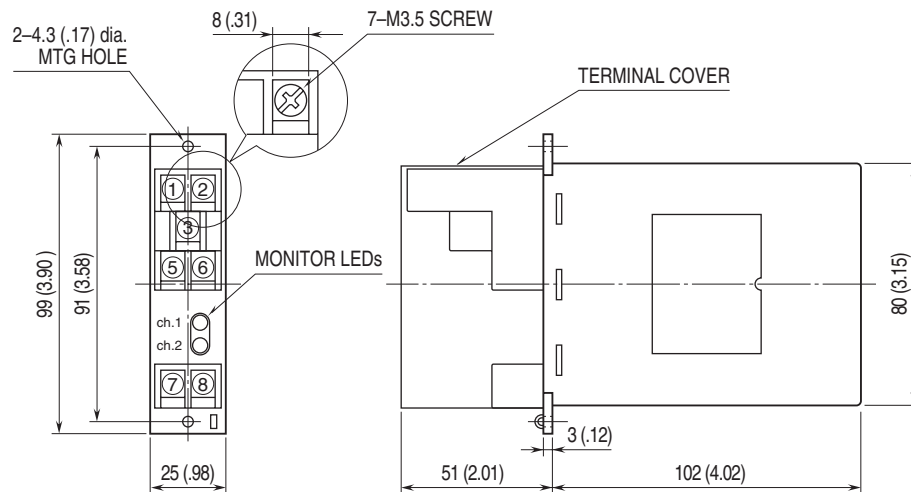


## GROUNDING

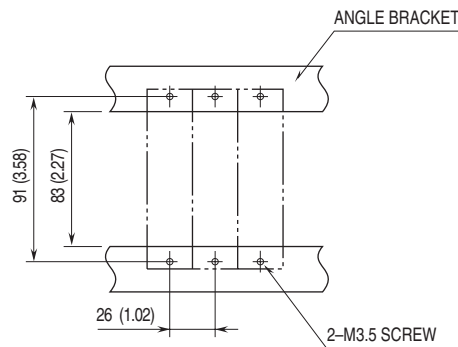


A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.  
If the protected equipment has no ground terminal, ground the M-RESTER only.

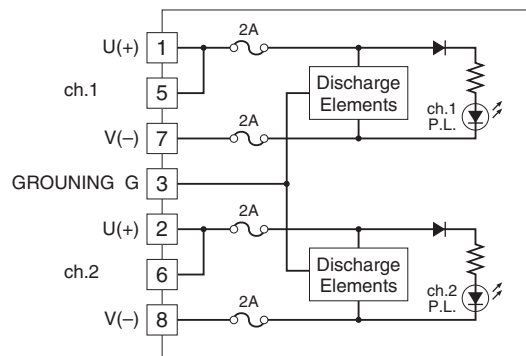
## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)



## MOUNTING REQUIREMENTS unit: mm (inch)



**SCHEMATIC CIRCUITRY**



Make sure to connect a DC power source in the proper polarity in order to turn the LED on.



Specifications are subject to change without notice.