MODEL: MA-200

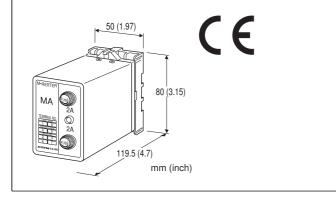
## Lightning Surge Protectors for Electronics Equipment M-RESTER

#### LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY

(2 A, 200 / 220 / 240 V AC)

#### **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
- CE marking



**MODEL: MA-200[1]** 

#### **ORDERING INFORMATION**

• Code number: MA-200[1] Specify a code from below for [1] (e.g. MA-200/CE)

#### [1] OPTIONS

**Standards & Approvlas** 

**blank**: Without CE /CE: CE marking

#### **GENERAL SPECIFICATIONS**

Construction: Plug-in

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

Screw terminal: Chromated steel

Housing material: Flame-resistant resin (black)

**Monitor lamp**: Green neon lamp turns 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**: Surface or DIN rail **Weight**: 330 g (0.73 lbs)

#### **PERFORMANCE**

Discharge voltage (peak voltage)

Line to line: 410 V min. Line to ground: 410 V min. **Maximum surge voltage** Line to line: 700 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 @ 300 V DC Line to ground: ≤ 1 mA @ 300 V DC

Max. discharge current (Imax): 1000 A (8/ 20 μsec.)

Max. load current: 2 A

**Voltage drop**:  $\leq$  2 V (50/60 Hz)

Rated line voltage: 200 V / 220 V / 240 V AC

#### **STANDARDS & APPROVALS**

CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005

Low Voltage Directive (2006/95/EC)

EN 61010-1: 2001 Installation Category II Pollution Degree 2

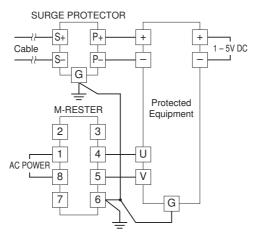


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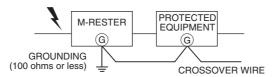
MODEL: MA-200

### **CONNECTION EXAMPLES**



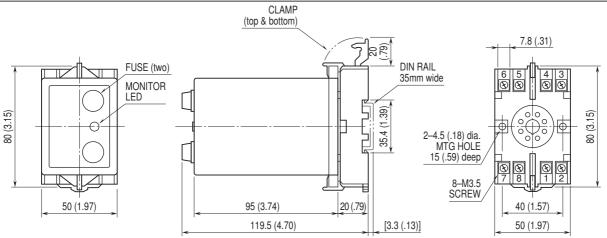
Ground one of the terminals 2, 3, 6 and 7.

### **GROUNDING**



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

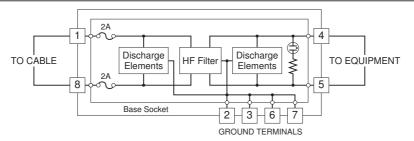
# **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)**



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

MODEL: MA-200

## **SCHEMATIC CIRCUITRY**



 $\Lambda$ 

Specifications are subject to change without notice.

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