Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY

(2 A, 100 / 110 / 120 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



MODEL: MA-100[1]

ORDERING INFORMATION

• Code number: MA-100[1] Specify a code from below for [1]. (e.g. MA-100/CE)

[1] OPTIONS

Standards & Approvals 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 lb)



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: \leq 1 mA at 150 V DC Line to ground: $\leq 1 \text{ mA}$ at 300 V DC Max. discharge current (Imax): 1000 A (8/ 20 µsec.) Max. load current: 2 A Voltage drop: $\leq 2 \vee (50/60 \text{ Hz})$ Rated line voltage: 100 V / 110 V / 120 V AC

STANDARDS & APPROVALS

EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 Low Voltage Directive EN 61010-1 Installation Category II Pollution Degree 2 RoHS Directive



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.



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



SCHEMATIC CIRCUITRY



Specifications are subject to change without notice.

