Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY USE

(5 A; high discharge current capacity; life monitor)

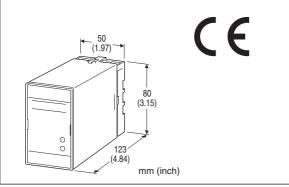
Functions & Features

- Designed specifically for AC power supplies up to 5 amps
- •Discharge current capacity 10000 A

• Life monitor function helps you to decide when you should replace the M-RESTER; reduces maintenance and prevents downtime

•LED display and alarm contact output indicate the

- degradation and life span of the surge protection circuits •No power supply interruption even when the unit is
- degraded or at the end of its life
- CE marking



MODEL: MAA-[1]

ORDERING INFORMATION

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

[1] OPERATIONAL VOLTAGE

100: 100 V / 110 V / 120 V AC **200**: 200 V / 220 V / 240 V AC

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) Alarm indicators Power: The green LED turns on while the circuit is alive and

the internal fuse is not blown; and is off when the power supply is removed or the fuse is blown. **Alarm**: Tricolor LED (green/amber/red)

幸託有限公司

XIN TOP CORPORATION



- •Remains off when the power supply is first turned on.
- •Green: The unit has received one or more surges.
- •Amber: Replacement is recommended.
- •Red: The life span has ended.

Alarm contact: The N.C. contact is on when the life span of the discharge elements has ended, when the voltage limiter has degraded, and/or when the power supply is removed.

Rating: 125 V AC @ 0.5 A (cos Ø = 1) 30 V DC @ 1 A (resistive load)

Maximum switching voltage: 125 V AC or 110 V DC Maximum switching power: 62.5 VA or 30 W Minimum load: 5 V DC @ 1 mA

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: 500 g (1.1 lbs)

PERFORMANCE

Operational voltage range: 90 - 132 V AC (MAA-100) 180 - 264 V AC (MAA-200) 50/60 Hz, approx. 2 VA

Discharge voltage (peak voltage)

Line to line: 190 V min. (MAA-100) 410 V min. (MAA-200)

Line to ground: 400 V min.

Maximum surge voltage

Line to line: 380 V max. (MAA-100) 700V max. (MAA-200)

Line to ground: 800 V max.

Withstand voltage of protected equipment between the circuit and the metal housing must be 1000 V AC or more. Response time: $\leq 0.01 \ \mu$ sec.

Leakage current

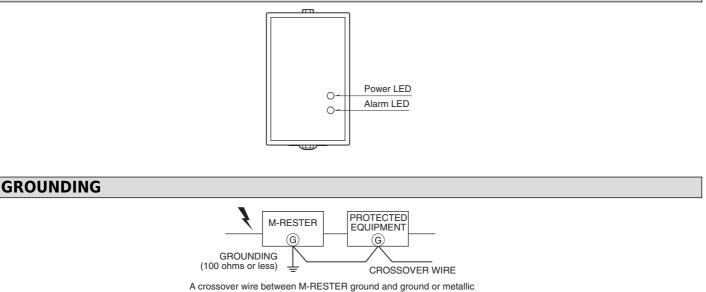
Line to line: ≤ 26 mA at 100 V AC (MAA-100) ≤ 13 mA at 200 V AC (MAA-200) Line to ground: ≤ 0.1 mA at 300 V AC Discharge current capacity: 10000 A (8/ 20 µsec.) Maximum load current: 5 A Internal series resistance: $\leq 0.5 \Omega$ including return

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

TEL : (02)2598-1199 E-mail : info@xintop.com FAX : (02)2596-2331 Website : www.xintop.com Pollution Degree 2 Alarm contact to power: Reinforced insulation (300 V)

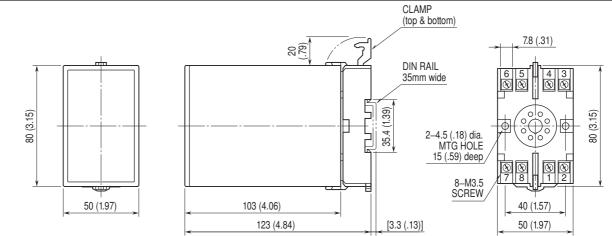
EXTERNAL VIEW



housing of equipment is required for protection. If the protected equipment has no ground terminal, ground the

M-RESTER only.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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



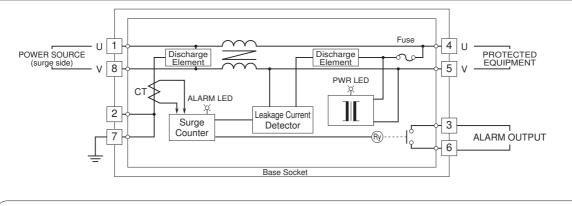
幸託有限公司

XIN TOP CORPORATION

FAX : (02)2596-2331

TEL: (02)2598-1199 E-mail: info@xintop.com Website : www.xintop.com

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



 \mathbb{M} Specifications are subject to change without notice.





FAX : (02)2596-2331

TEL: (02)2598-1199 E-mail: info@xintop.com Website : www.xintop.com