Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR ANALOG TELECOM LINE USE

(life monitor)

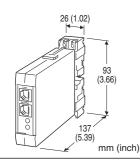
Functions & Features

• Designed specifically to protect telecommunication equipment from lightning surges entering through telecommunication line network

•Absorbing surges only without affecting instrumentation signal

• 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



MODEL: MDA-TL-[1]

ORDERING INFORMATION

• Code number: MDA-TL-[1] Specify a code from below for [1]. (e.g. MDA-TL-M)

[1] POWER INPUT

AC Power

 $\mbox{M}:$ 85 – 264 V AC (Operational voltage range 85 – 264 V, 47 – 66 Hz)

DC Power

R2: 11 – 27 V DC (Operational voltage range 11 – 27 V, ripple 10 %p-p max.) P: 110 V DC (Operational voltage range 85 – 150 V, ripple 10 %p-p max.)

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GENERAL SPECIFICATIONS

Construction: Plug-in Connection Telecom line: Modular jack or M3.5 screw terminals (torque 0.8 N·m);

Line screw terminal connection must be handled by qualified personnel.

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

Modular jack cord: 6-pole, 2-core

Screw terminal: Nickel-plated steel

Housing material: Flame-resistant resin (black) Alarm indicators

Power: The green LED turns on while the power is supplied.

- Alarm: Tricolor LED (green/amber/red)
- •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.

Life time judged: When the number of discharges

of the discharge element reaches the expected life span. **Alarm contact**: The N.C. contact is on when the life span of the discharge elements has ended and/or when the power supply is removed.

Rating: 125 V AC @ 0.5 A ($\cos \phi = 1$) 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

Power consumption
•AC: Approx. 2 VA at 100 V Approx. 3 VA at 200 V
Approx. 4 VA at 240 V
•DC: Approx. 1.5 W
Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Surface or DIN rail; Standard Rack Mounting
Frame BX-16H available
Weight: 150 g (0.33 lbs)

PERFORMANCE

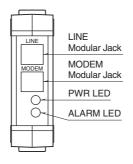
Discharge voltage (peak voltage) Line to line: $\pm 190 \text{ V}$ min. Line to ground: $\pm 180 \text{ V}$ min. Maximum surge voltage Line to line: $\pm 500 \text{ V}$ max. Line to ground: $\pm 900 \text{ V}$ max. (The maximum voltage that could pass through M-RESTER. Protected equipment must be able to withstand this voltage for very short time period.) Response time: $\leq 0.01 \mu \text{sec.}$ Leakage current: Line to line: $\leq 100 \mu \text{A} @ \pm 160 \text{ V} \text{ DC}$



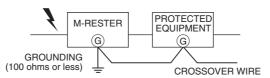
TEL : (02)2598-1199E-mail : info@xintop.comFAX : (02)2596-2331Website : www.xintop.com

Line to ground: $\leq 100 \ \mu A @ \pm 160 \ V DC$ Discharge current capacity Modular jack connection: 500 A (8 / 20 μ sec.) Screw terminal connection: 10000 A (8 / 20 μ sec.) Maximum load current: 200 mA Insulation resistance: $\geq 100 \ M\Omega$ with 500 V DC (surge protector circuit to alarm output to power) Dielectric strength: 2000 V AC @ 1 minute (surge protector circuit to power to alarm output to ground) Internal series resistance: Approx. 4 Ω including return Maximum line voltage: $\pm 160 \ V DC$ Frequency band: Approx. 100 kHz/-3 dB at 600 Ω terminating resistance

EXTERNAL VIEW

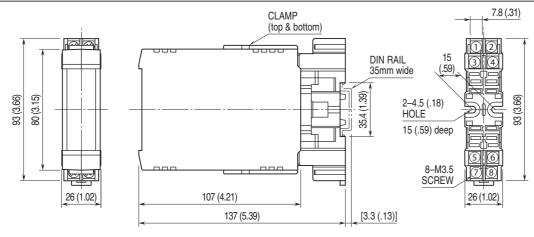


GROUNDING



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 ASSIGNMENTS unit: mm (inch)



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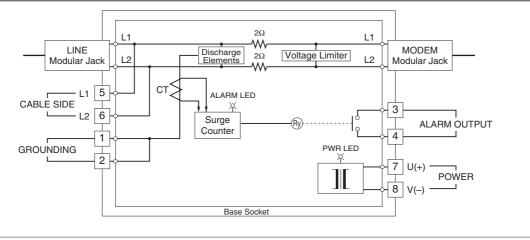
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•When mounting, no extra space is needed between units.



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SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.

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