

Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR SELF-SYNCH USE

MODEL MDP-JS

MODEL & SUFFIX CODE SELECTION

MODEL _____ **MDP-JS**

ORDERING INFORMATION

Specify code number. (e.g. MDP-JS)

GENERAL SPECIFICATIONS

Construction: plug-in

Connection: M4 screw terminals (nickel-plated steel; torque ≤ 0.8 N·m)

Housing material: flame-resistant resin (black)

INSTALLATION

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

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

Mounting: surface or DIN rail (DIN rail adaptor model A-33 is required.)

Dimensions: W31.5×H100×D80 mm (1.24"×3.94"×3.15")

Weight: 100 g (0.22 lbs)

PERFORMANCE

Discharge voltage (peak-to-peak)

Between A – B – C: ± 170 V min.

Between each line – G: ± 290 V min.

Maximum surge voltage*

Between 1 – 2 – 3: ± 350 V max.

Between each line – G: ± 650 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: ≤ 0.1 microseconds

Discharge current capacity: 5000A (8 / 20 μ sec.)

Maximum load current: 500mA

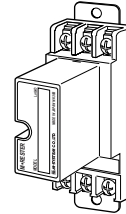
Internal series resistance: approx. 2Ω per wire

Leakage current

Between A – B – C: $\leq 50\mu$ A at ± 170 V DC

Between each line – G: $\leq 50\mu$ A at ± 290 V DC

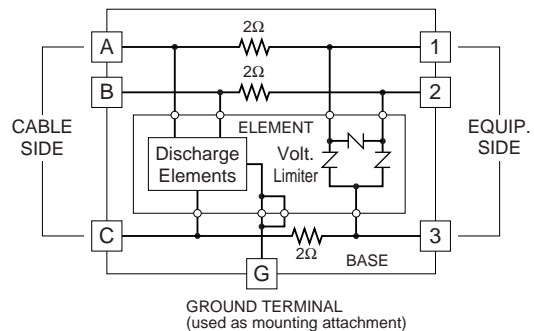
Rated line voltage: 90V AC



Functions & Features

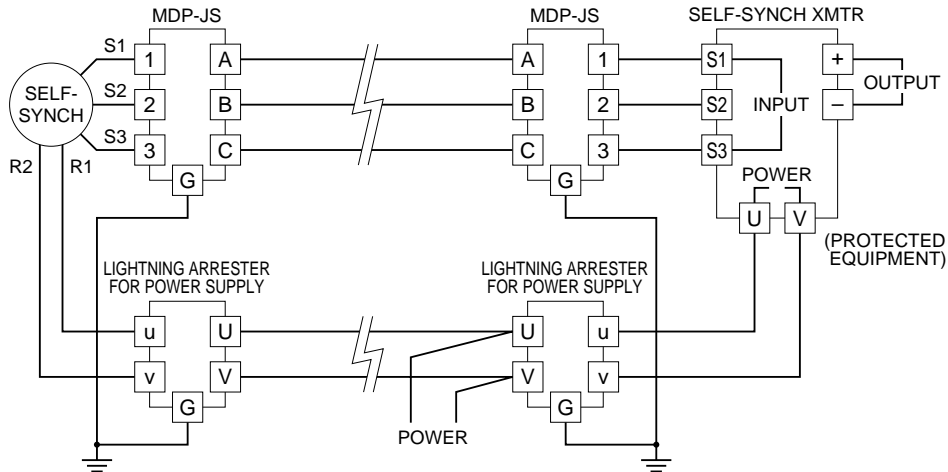
- Designed specifically for self-synchronizing motor circuit
- Protecting self-synch transmitter and converter from damage caused by surges on the wiring
- Absorbing surges only without affecting instrumentation signal
- No interruption of signal by unplugging arrester element

SCHEMATIC CIRCUITRY



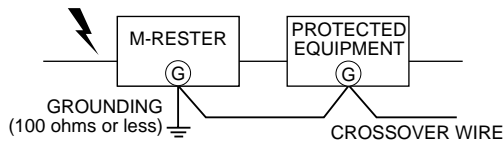
GROUND TERMINAL (used as mounting attachment)

CONNECTION DIAGRAM

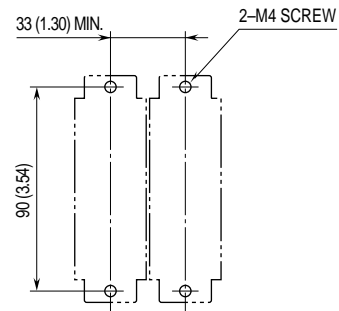


GROUNDING

A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.



MOUNTING REQUIREMENTS mm (inch)



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)

