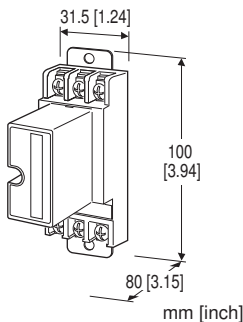


Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR SELF-SYNCH USE

Functions & Features

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



MODEL: MDP-JS[1]

ORDERING INFORMATION

- Code number: MDP-JS[1]
Specify a code from below for [1].
(e.g. MDP-JS/A33/Q)
- Specify the specification for option code /Q
(e.g. /C01)

[1] OPTIONS (multiple selections)

DIN Rail Mounting Adapter

blank: Without

/A33: With adapter (model A-33)

Other Options

blank: none

/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)

/C01: Silicone coating

/C02: Polyurethane coating

/C03: Rubber coating

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M4 screw terminals (torque 0.8 N·m)

Screw terminal: Nickel-plated steel

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

Weight: 100 g (0.22 lb), standard; 125 g (0.28 lb), with DIN rail mounting adapter

PERFORMANCE

Max. continuous operating voltage (Uc):

A to B to C: ± 170 V

Line to earth: ± 290 V

Voltage protection level (Up):

• @ 1 kV (100 A)

1 to 2 to 3: ± 350 V

Line to earth: ± 650 V

• @ 2 kV (1 kA)

1 to 2 to 3: ± 450 V

Line to earth: ± 800 V

Response time: ≤ 0.1 μ sec.

Leakage current:

A to B to C: ≤ 50 μ A @ ± 170 V DC

Line to earth: ≤ 50 μ A @ ± 290 V DC

Max. discharge current (Imax): 5000 A (8 / 20 μ s)

Nominal current (In): 500 mA

Internal series resistance: Approx. 2 Ω (per wire)

Rated line voltage: 90 V AC

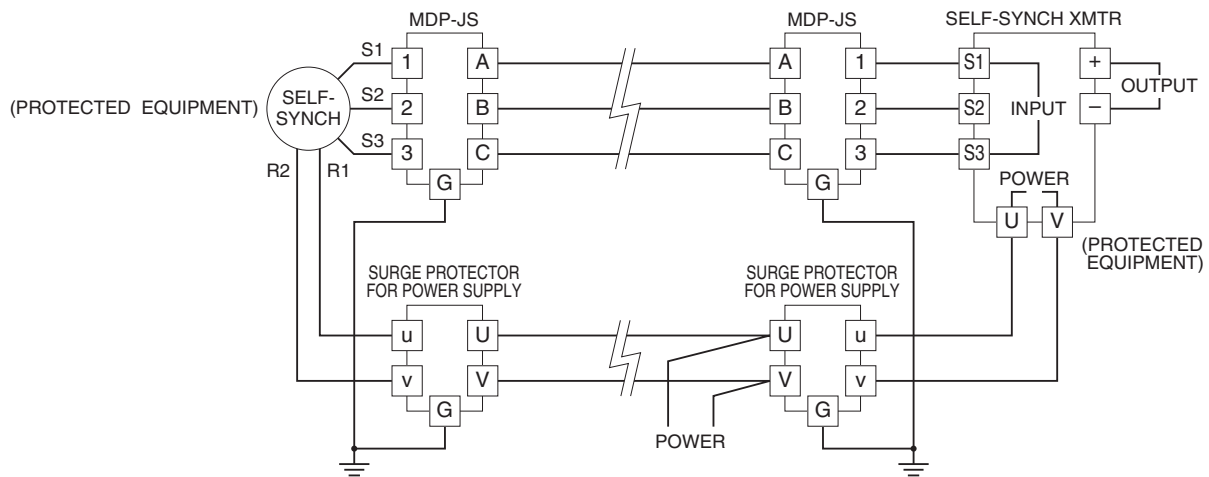
Capacitance @ 1 MHz:

Line to line: ≤ 1.5 nF

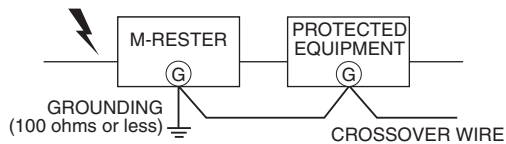
Line to earth: ≤ 50 pF

Surge protection: IEC 61643-21 Categories C1, C2, D1

CONNECTION EXAMPLES



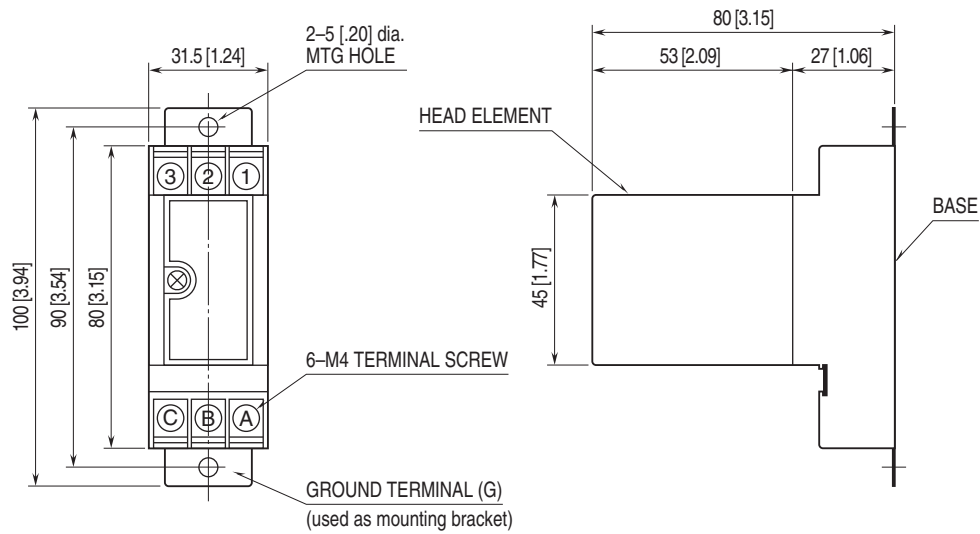
GROUNDING



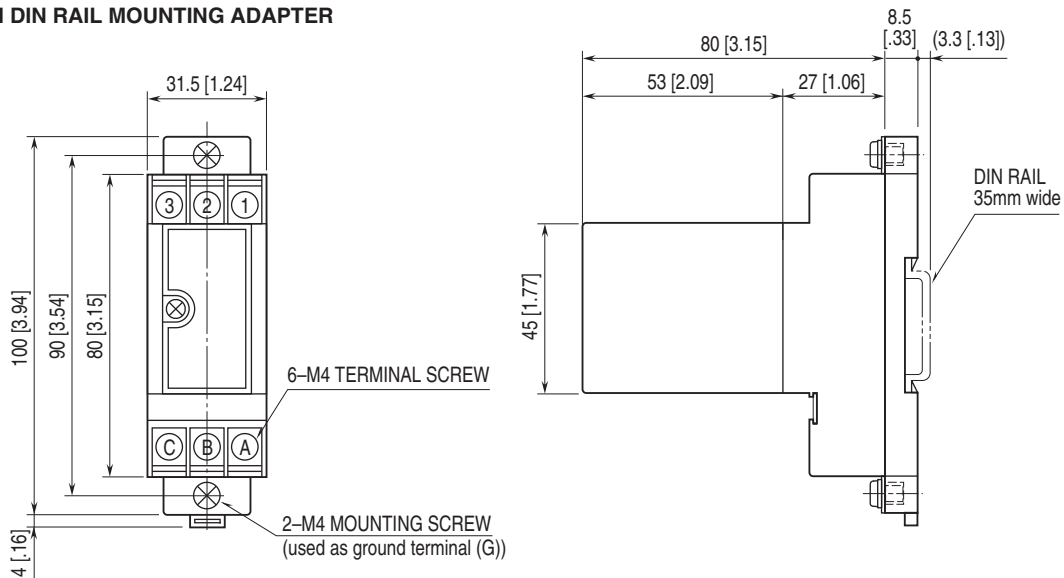
A crossover wire between M-RESTER ground and the ground or metallic housing of the equipment is required for protection.
 If the protected equipment has no ground terminal, ground the M-RESTER only.
 When the M-RESTER is mounted with DIN Rail Mounting Adapter, connect the grounding wire to the mounting screw of the M-RESTER.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

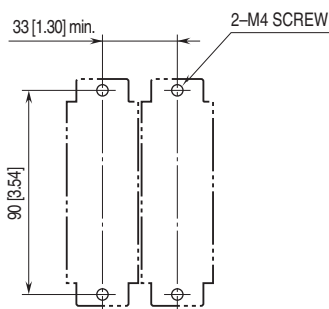
■ STANDARD



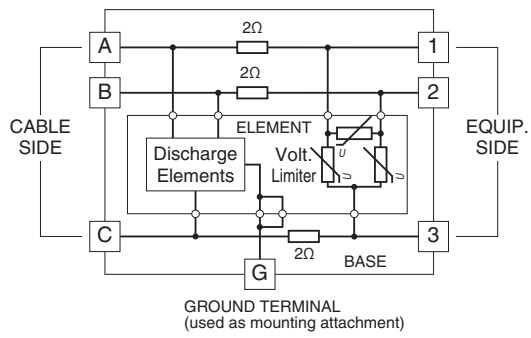
■ WITH DIN RAIL MOUNTING ADAPTER



MOUNTING REQUIREMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.