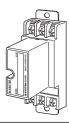
MODEL: MDP-PM

Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR POTENTIOMETER USE

Functions & Features

- Designed specifically for potentiometer or slidewire circuits
- Protects potentiometer transmitters from lightning surge damage that enters on the wiring between the potentiometer and the transmitter
- Absorbs surges only without affecting instrumentation signal
- No interruption of signal by unplugging the protector element



MODEL: MDP-PM[1]

ORDERING INFORMATION

• Code number: MDP-PM[1]
Specify a code from below for [1].

(e.g. MDP-PM/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**: 140 g (0.31 lb), standard

165 g (0.36 lb), with DIN rail mounting adapter

PERFORMANCE

Max. continuous operating voltage (Uc):

B to C: ±7.5 V B or C to A: 7.5 V Line to earth: ±140 V

Voltage protection level (Up):

@ 1 kV (100 A)
2 to 3: ±16 V
2 or 3 to 1: 16 V
Line to earth: ±650 V
@ 2 kV (1 kA)

2 to 3: ± 25 V 2 or 3 to 1: 25 V Line to earth: ± 800 V **Response time**: ≤ 0.1 µsec.

Leakage current:

B to C: \leq 10 μ A @ \pm 7.5 V DC B or C to A: \leq 10 μ A @ 7.5 V DC Line to earth: \leq 10 μ A @ \pm 140 V DC

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

Nominal current (IN): 100 mA

Internal series resistance: 10 Ω ±0.1 %, 30 ppm/°C (17

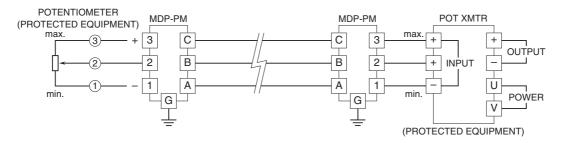
ppm/°F)

Capacitance @ 1 MHz: Line to line: ≤ 2000 pF Line to earth: ≤ 100 pF

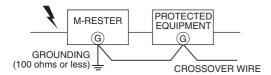
Surge protection: IEC 61643-21 Categories C1, C2, D1

MODEL: MDP-PM

CONNECTION EXAMPLES



GROUNDING

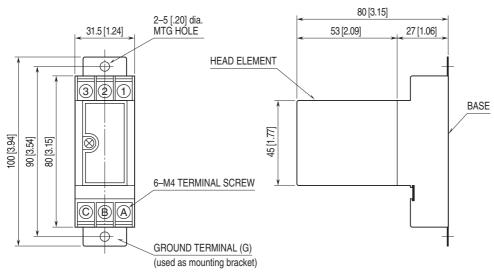


A crossover wire between M-RESTER ground and the ground or metallic housing of the equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only.

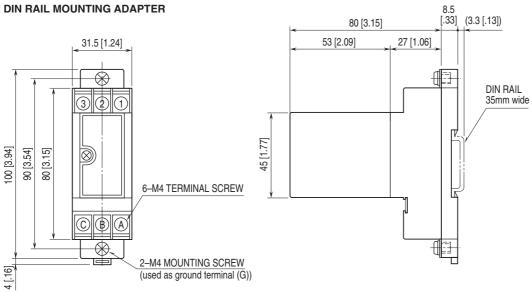
When the M-RESTER is mounted with DIN Rail Mounting Adapter, connect the grounding wire to the mounting screw of the M-RESTER.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

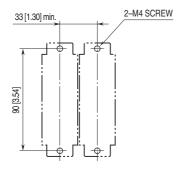
■ STANDARD



■ WITH DIN RAIL MOUNTING ADAPTER

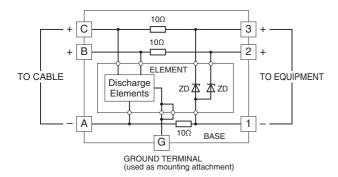


MOUNTING REQUIREMENTS unit: mm [inch]



MODEL: MDP-PM

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.