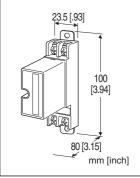
MODEL: MDP-EC

Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR EC-CABLE USE

Functions & Features

- Designed specifically for the 32-point Transmission System EC-CABLE
- Protects the transmitter model ECT and the receiver ECR from lightning surges entering through the twisted-pair cables connecting the both modules
- Applicable to transmission systems by current loops
- Absorbs surges only without affecting instrumentation signal
- No interruption of signal by unplugging the protector element



MODEL: MDP-EC[1]

ORDERING INFORMATION

• Code number: MDP-EC[1]
Specify a code from below for [1].
(e.g. MDP-EC/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:

120 g (0.26 lb), standard

145 g (0.32 lb), with DIN rail mounting adapter

PERFORMANCE

Max. continuous operating voltage (Uc):

Line to line: ±12 V
Line to earth: ±140 V

Voltage protection level (Up):

@ 1 kV (100 A)
Line to line: ±25 V
Line to earth: ±650 V
@ 2 kV (1 kA)
Line to line: ±30 V
Line to earth: ±800 V
Response time: ≤ 0.1 µsec.

Leakage current:

Line to line: \leq 10 μ A @ \pm 12 V DC Line to earth: \leq 10 μ A @ \pm 140 V DC

Max. discharge current (Imax): $5000 \text{ A} (8 / 20 \mu s)$

Nominal current (I_N): 100 mA

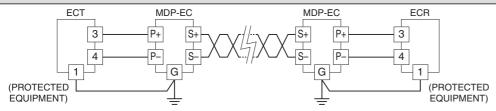
Internal series resistance: $20 \Omega \pm 10 \%$ (including return)

Capacitance @ 1 MHz: Line to line: ≤ 1000 pF Line to earth: ≤ 100 pF

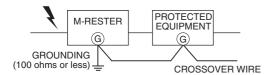
Surge protection: IEC 61643-21 Categories C1, C2

MODEL: MDP-EC

CONNECTION EXAMPLES



GROUNDING

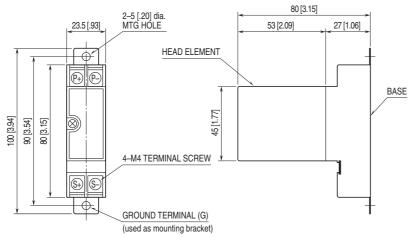


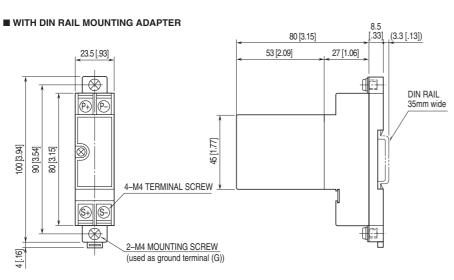
A crossover wire between M-RESTER ground and the ground or metallic housing of the equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only.

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]

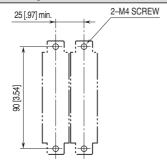
■ STANDARD



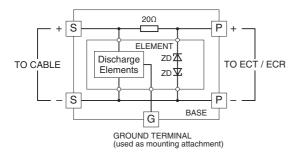


MODEL: MDP-EC

MOUNTING REQUIREMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.