Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR EC-CABLE USE

Functions & Features

- Designed specifically for M-System's 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)

[1] OPTIONS

DIN rail mounting adapter blank: Without /A33: With adapter (model A-33)

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 lbs), standard 145 g (0.32 lbs), with DIN rail mounting adapter

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PERFORMANCE

Max. continuous operating voltage (Uc): Line to line: ±12 V min Line to earth: ±500 V max Voltage protection level (Up): • @ 1 kV (100 A) Line to line: ±25 V max. Line to earth: ±650 V max. • @ 2 kV (1 kA) Line to line: ±30 V max. Line to earth: ±800 V max. **Response time**: $\leq 0.1 \, \mu \text{sec.}$ Leakage current: Line to line: \leq 10 µA @ ±12 V DC Line to earth: \leq 10 µA @ ±140 V DC Max. discharge current (Imax): 5000 A (8 / 20 µs) Nominal current (IN): 100 mA **Internal series resistance**: $20 \Omega \pm 10 \%$ (including return) Capacitance @ 1 MHz: Line to line: $\leq 1000 \text{ pF}$ Line to earth: \leq 100 pF

STANDARDS & APPROVALS

Surge protection: IEC 61643-21 (Categories C1, C2)

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

MODEL: MDP-EC



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)



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MOUNTING REQUIREMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.





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