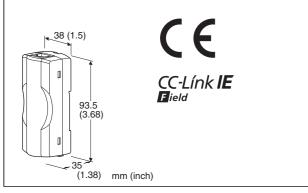
# Lightning Surge Protectors for Electronics Equipment M-RESTER

#### LIGHTNING SURGE PROTECTOR FOR CC-Link IE Field Network Functions & Features

• Recommended for CC-Link IE Field Network

 $\bullet$  LAN cable's shield wire can be floating or grounding by a shortcircuit bar

- DIN rail mounting
- Grounding with M3 screw terminal or via DIN rail



# **MODEL: MDCAT-NC-5E**

## **ORDERING INFORMATION**

•Code number: MDCAT-NC-5E

## **CABLE CATEGORY**

**5E**: CAT5e

## PACKAGE INCLUDES...

LAN cable connected to the protected device (Compatible cable with CC-Link IE Field Network, 0.5 meters)

### **APPLICABLE NETWORK**

Applicable network: CC-Link IE Field Network Applicable cable: Compatible cable wiith CC-Link IE Field Network

## **GENERAL SPECIFICATIONS**

Connection Network: RJ-45 modular jack Grounding: M3 screw terminal (torque 0.6 N·m) or via DIN rail Screw terminal: Nickel-plated brass Housing material: Flame-resistant resin (black)

### INSTALLATION

**Operating temperature:** -25 to +85°C (-13 to +185°F) **Operating humidity:** 10 to 90 %RH (non-condensing) **Mounting:** DIN Rail (TH35-7.5, 1-mm-thick) When this unit is earthed via a DIN rail, use a steel or copper rail. Oxide film on the surface of an aluminium rail may lower the electric conductivity between this module and the ground. **Weight:** 150 g (0.33 lb)

### PERFORMANCE

Max. continuous operating voltage (Uc): Line to line 1: ±6 V Line to line 2: ±58 V Line to earth: ±150 V Voltage protection level (Up): Line to line 1: ±15 V (@2 kV, 1.2/50 µsec.) Line to line 2: ±100 V (@2 kV, 1.2/50 µsec.) Line to earth: ±600 V (@4 kV, 1.2/50 µsec.) Response time: Line to line 1: 4 nsec. Line to line 2: 4 nsec. Line to earth: 20 nsec. Leakage current @Uc: Line to line 1: 25 µA Line to line 2: 5 µA Line to earth: 5 µA Max. discharge current (Imax) Line to line 1: 100 A (8/20 µsec.) Line to line 2: 100 A (8/20 µsec.) Line to earth: 10 kA (8/20 µsec.) Nominal current (I<sub>N</sub>): 1 A Series resistance: approx. 0 Ω Note: "Line to line 1" stands for electrodes 1 - 2, 3 - 6, 4 - 5 and 7 – 8, "line to line 2" stands for electrodes  $1 \cdot 2 - 3 \cdot 6$ and  $4 \cdot 5 - 7 \cdot 8$  of RI-45 Modular jack.

## **STANDARDS & APPROVALS**

CE conformity: EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007/A1: 2011 EMS EN 61000-6-2: 2005 Surge protection: IEC 61643-21: 2000 (Categories C1, C2) Transmission performance: TIA/EIA-568-B.2 CAT5e



幸託有限公司 TEL: (02)2 XIN TOP CORPORATION FAX: (02)2

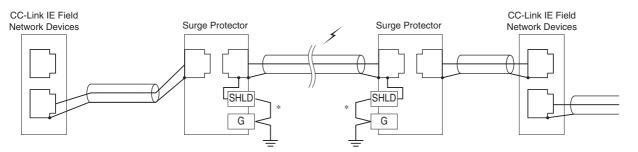
TEL : (02)2598-1199 E-mail : info@xintop.com FAX : (02)2596-2331 Website : www.xintop.com

## **CONNECTION EXAMPLES**

• Install the lightning surge protectors in places where it is considered that lightning surge may enter (where panels/cabinets are greatly separated, such as outdoor wiring).

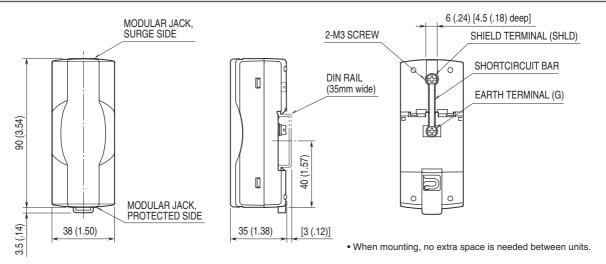
• The maximum number of surge protectors that can be installed between devices is two (2). Take into account insertion loss 1

- dB per surge protector as a rough indication.
- Refer to "CC-Link IE Field Network Cable Installation Manual" issued by CC-Link Partner Association for details.



\*LAN cable's shield wire (SHLD) is 'earthed' when shortcircuit bar is connected. Make sure to connect the shortcircuit bar when you use shielded LAN cable.

### **DIMENSIONS unit: mm (inch)**

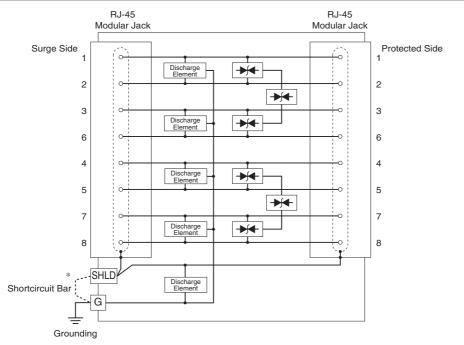




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#### SCHEMATIC CIRCUITRY

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\*Remove the shortcircuit bar to make the LAN cable's shield wire floating.

Specifications are subject to change without notice.





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