

## Lightning Surge Protectors for Electronics Equipment M-RESTER

### Arrester module

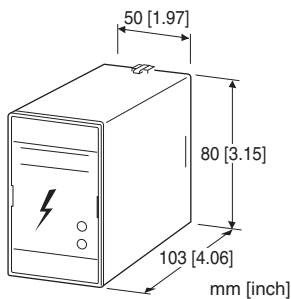
(For MMH use)

#### Functions & Features

- MMH Dedicated Lightning Surge Protection Module
- With disconnection function at detection of leakage current due to surge absorber element error
- With error alarm contact output and error display monitor LED
- Plug-in type with easy replacement

#### Typical Applications

- Maintenance product for MMH



### MODEL: MEH-[1]

#### ORDERING INFORMATION

- Code number: MEH-[1]

Specify a code from below for [1].

(e.g. MEH-1)

#### [1] OPERATIONAL VOLTAGE

1: 100 V/110 V AC

2: 200 V/220 V AC

#### RELATED PRODUCTS

- Lightning Surge Protector for Power Supply Use (model: MMH)

#### PACKAGE INCLUDES...

- MMH Mounting Clamp x 2
- Mounting Screw Set x 2

#### GENERAL SPECIFICATIONS

**Construction:** Plug-in

**Housing material:** Flame-resistant resin (black)

#### Monitor LED

- **RUN:** Green LED turns on in normal conditions
- **ALARM:** Red LED turns on in error

**Alarm Contact:** OFF at error

- **Rating:** 110 V AC @ 0.5 A ( $\cos \phi = 1$ )

30 V DC @ 1 A (resistive load)

- **Maximum switching voltage:** 125 V AC or 110 V DC

- **Maximum switching power:** 62.5 VA or 30 W

- **Minimum load:** 10 mV DC @10  $\mu$ A

**Alarm detecting current:** Approx. 100 mA

#### INSTALLATION

**Operating temperature:** -5 to +55°C (23 to 131°F)

**Operating humidity:** 30 to 90 %RH (non-condensing)

**Weight:** 350 g (0.77 lb)

#### PERFORMANCE

##### AC discharge voltage (peak voltage)

Line to line:

190 V min. (MMH-1x)

410 V min. (MMH-2x)

Line to ground: 410 V min.

##### Maximum surge voltage (peak voltage)

Line to line:

350 V max. (MMH-1x)

700 V max. (MMH-2x)

Line to ground: 800 V max.

(Usable for those instruments which can withstand 1000 V AC between the circuit and housing)

Note: The maximum voltage that could pass through M-RESTER. Protected equipment must be able to withstand this voltage for very short time period.

**Response time:**  $\leq 0.01 \mu$ sec.

##### Leakage current

Line to line:

$\leq 50$  mA at 110 V AC (MMH-1x)

$\leq 30$  mA at 220 V AC (MMH-2x) including driving current for the MEH and relay

Line to ground:  $\leq 1$  mA at 220 V AC

**Discharge current capacity:** 10000 A (8/ 20  $\mu$ sec.)

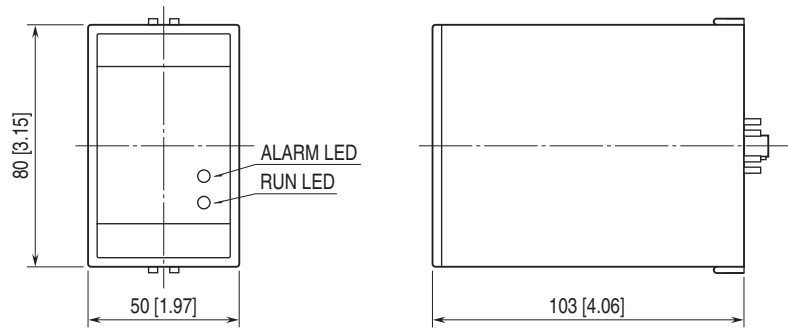
##### Maximum load current:

10 A (MMH-x10)

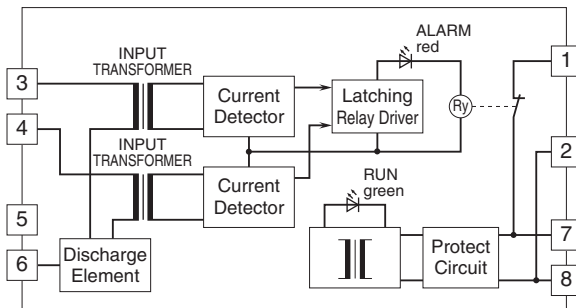
30 A (MMH-x30)

**Voltage drop:**  $\leq 1$  V (50/60 Hz)

**EXTERNAL DIMENSIONS unit: mm [inch]**



**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



Specifications are subject to change without notice.