Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR POWER SUPPLY USE

(20 A)

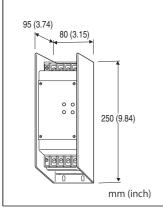
Functions & Features

• Designed specifically for power requirements of medium capacities (20 amps)

- Protecting electronic equipment from lightning surges that enter through power supply circuits
- Discharge current capacity 10000 A
- Surge absorber failure indicated with LED
- Detaching the discharge elements from the power supply circuits when fuses are blown

Typical Applications

- Computers and other electronic devices
- Control and telemetering systems



MODEL: MAH-[1]

ORDERING INFORMATION

• Code number: MAH-[1] Specify a code from below for [1]. (e.g. MAH-223)

[1] OPERATIONAL VOLTAGE

121: Single phase 2-wire, 100 V / 110 V / 120 V AC
221: Single phase 2-wire, 200 V / 220 V / 240 V AC
123: Single phase 3-wire, 100 V / 110 V / 120 V AC
(Phase voltage (line-neutrality))
223: Three phase 3-wire, 200 V / 220 V / 240 V AC

GENERAL SPECIFICATIONS

Construction: Stand-alone; terminal access at the front **Connection**: M4 screw terminals (torque 1.6 N·m)

M.M.SYSTEM CO., LTD.

http://www.m-system.co.jp/

Screw terminal: Nickel-plated brass Housing material: Steel plate t = 1.6 (black) Alarm indicator LED: Red lights turn ON with power supplied; OFF at error

INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Surface Weight: 2 kg (4.4 lbs)

PERFORMANCE

Response time: $\leq 0.1 \ \mu sec.$ Discharge current capacity: 10000 A (8/ 20 $\mu sec.$) Maximum load current: 20 A Voltage drop: $\leq 1 \ V (50/60 \ Hz)$

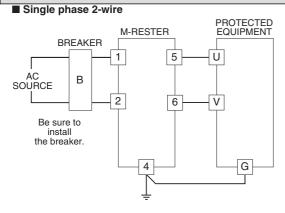
	BETWEEN LINES		
	MAH-121 (MAH-123 line-neutrality)	MAH-221, 223 (MAH-123 1-3)	LINE TO GND
Discharge volt. (peak volt.)	190V min.	380V min.	380V min.
Max. surge voltage *	350V max.	700V max.	700V max.
Leakage current	≤40mA ** @110V AC	≤40mA ** @220V AC	≤1mA @220V AC

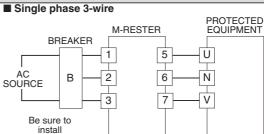
* The maximum voltage that could pass through M-REST-ER. Protected equipment must be able to withstand this voltage for very short time period.

** Including the current consumed at the LEDs.

MODEL: MAH

CONNECTION EXAMPLES





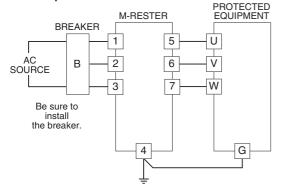
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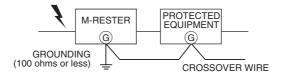
Τ

the breaker.

Three phase 3-wire



GROUNDING



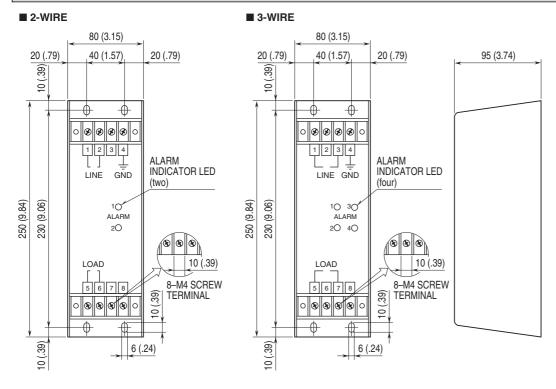
A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only.



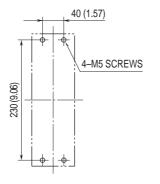
MAH SPECIFICATIONS

MODEL: MAH

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)



MOUNTING REQUIREMENTS unit: mm (inch)





MAH SPECIFICATIONS

MODEL: MAH

