MODEL: MD7AST

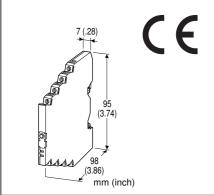
Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR STANDARD SIGNAL LINE

(ultra-slim; life monitor)

Functions & Features

- High discharge current capacity 20 kA (8 / 20 μ s), 1 kA (10 / 350 μ s)
- Ultra-thin 7-mm-wide module can be mounted in high density
- Excellent protection employing multi-stage SPD circuits
- DIN rail mounting and grounding
- Shield terminal provided
- Life monitor function helps you to decide when you should replace the surge protector; reduces maintenance and prevents downtime
- · Incorporated battery
- Pressing CHK (Check) button confirms with LEDs the degradation and life span of the surge protection circuits
- CE marking



MODEL: MD7AST-[1][2]

ORDERING INFORMATION

• Code number: MD7AST-[1][2] Specify a code from below for each [1] and [2] (e.g. MD7AST-24FF)

[1] NOMINAL VOLTAGE

24: 24 V DC **60**: 60 V DC

[2] SHIELD TERMINAL (line / earth)

FF: Floating / Floating **FG**: Floating / Grounding

GENERAL SPECIFICATIONS

Construction: Slim-sized front terminal structure

Degree of protection: IP20

Connection: Euro terminal block (torque 0.3 N·m)

Applicable wire size: 0.2 - 2.5 mm²

Grounding: DIN Rail

Housing material: Flame-resistant resin (black) **Indicators**: Activated by CHK (Check) button

BAT: Green LED ALM: Red LED

Degradation judged: When the leakage current at the

voltage limiter exceeds approx. 7.5 μA.

Life time judged: When the count of the discharge element

discharging reaches the expected life span. **CHK button**: Push button; momentary

Battery: Lithium; No recharge or replacement available. **Battery life**: 10 years (when used ≤ 2 minutes/month)

INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: DIN Rail (TH35-7.5, 1-mm-thick)

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

Oxide film on the surface of an aluminium rail may lower the electric conductivity between this module and the

ground. Use a steel or copper rail.

Weight: 70 g (2.5 oz)



MODEL: MD7AST

PERFORMANCE

MODEL NO.	NOMINAL VOLTAGE	MD7AST-24		MD7AST-60	
	SHLD TERMINAL	FF	FG	FF	FG
Max. continuous operating voltage (Uc)	Line to Line	30V		70V	
	Line to Earth	±160V		±160V	
	Line to SHLD	±160V		±160V	
	SHLD to Earth	±160V	short	±160V	short
Voltage protection level (Up) @6kV (1.2 / 50 µs)	Line to Line	60V		115V	
	Line to Earth	±800V		±800V	
	Line to SHLD	±1200V	±800V	±1200V	±800V
	SHLD to Earth	±800V	short	±800V	short
Leakage current @Uc	Line to Line	≤5µA		≤5µA	
	Other sections	≤5µA		≤5µA	
Response time	Line to Line	≤4 nsec.		≤4 nsec.	
	Other sections	≤20 nsec.		≤20 nsec.	
Max. discharge current (Imax)		20kA (8 / 20 μs), 1.0kA (10 / 350 μs)			
Nominal current (I _N)		250mA			
Internal series resistance		$4.7\Omega \pm 10\%$ per line		10Ω ±10% per line	

STANDARDS & APPROVALS

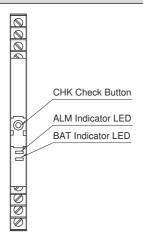
CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005

Surge protection: IEC 61643-21: 2000

(Categories C1, C2, D1)

EXTERNAL VIEW

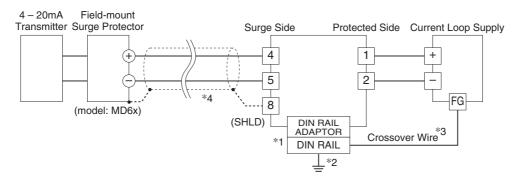


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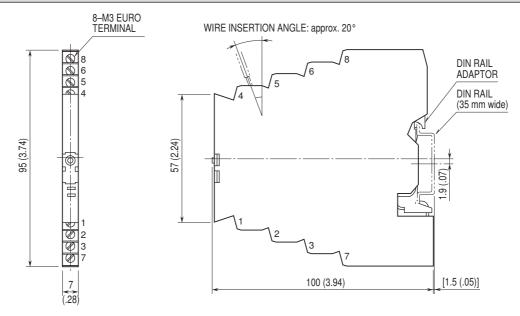
MODEL: MD7AST

CONNECTION EXAMPLES



- *1.Oxide film on the surface of an aluminium rail may lower the electric conductivity between this module and the ground. Use a steel or copper rail.
- *2.Be sure to ground the DIN rail. Recommended grounding resistance ≤100Ω
- *3. Cross-wire between the DIN rail and the metal housing of the protected device to equalize the earth potential. Ground only the surge protector when the protected device has no ground terminal.
- *4.Shield wiring method is an example. Proceed according to the system requirements.

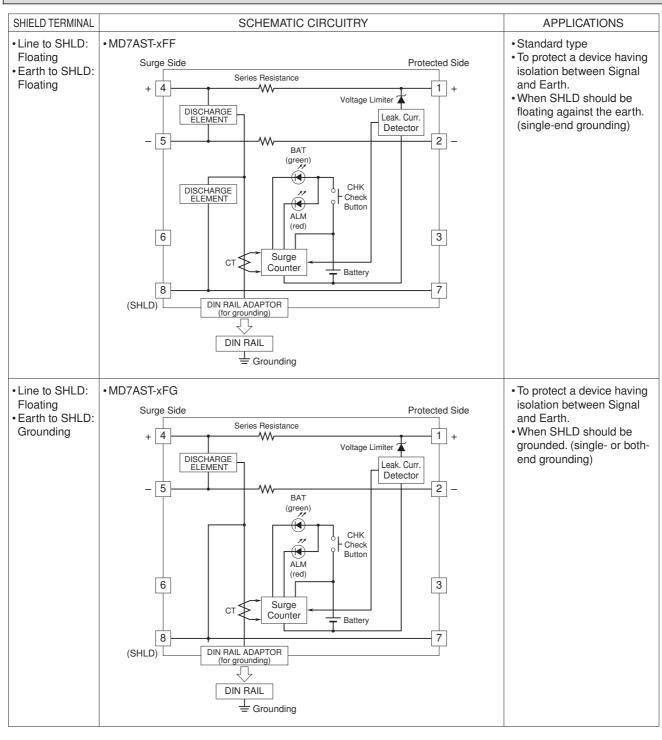
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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SCHEMATIC CIRCUITRY





Specifications are subject to change without notice.

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