



HS-DIN Series

Introduction

Since 1980, Eaton's Innovative Technology has provided Surge Protective Devices (SPDs) to power quality equipment users around the world. Whatever your electrical surge protection need may be, Eaton's Innovative Technology has a Surge Protective Device to fill it!

General Features

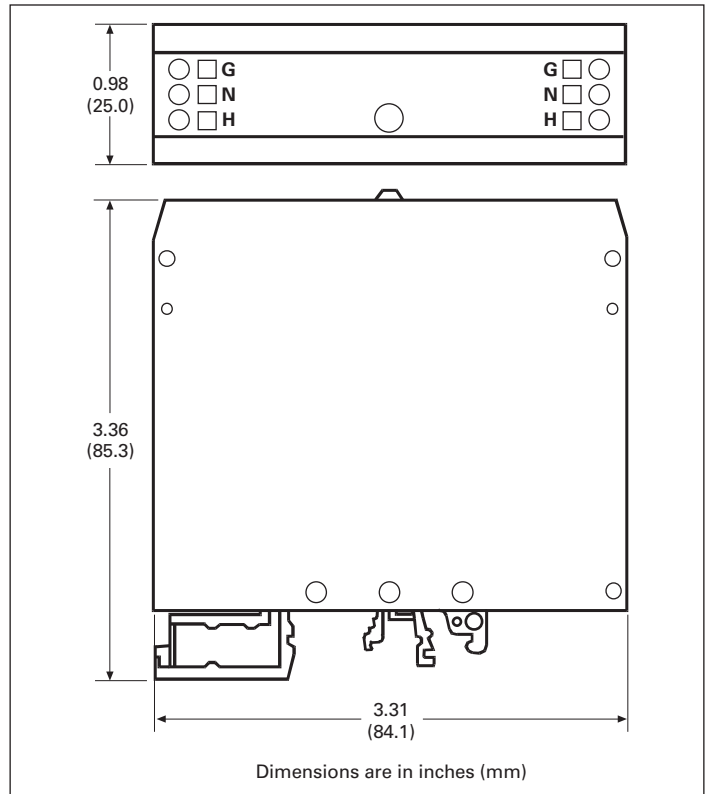
- Description — Series or parallel wired, terminal strip connected, Multi-stage Hybrid **A**ctive **T**racking **N**etwork (**ATN**®) surge protective device
- Application — Dedicated ac power circuits operating at 5–250 Vac / 5–300 Vdc, ≤10 Amps, feeding variable speed drives, variable frequency drives, process controllers, PLCs, power supplies, microprocessor-based loads, CNCs and a wide variety of other mission critical and general purpose individual loads
- Warranty — Ten-Year Free Replacement
- Unit Listings — Recognized components under UL®1449 Second Edition and cUL®, UL 1283 filter
- Manufacturer Qualifications — ISO® 9001:1994 Quality System Certification BSI FM 30833

Mechanical and Electrical Features

- Enclosure — Polyamide, Nylon 6,6 UL94V-0
- Connection — Wire clamping box terminals; 24 AWG (.25 mm²) wire size – 12 AWG (4 mm²) wire size
- Weight — ≈.45 kg (1 lb.)
- Operating Temperature — -40°C (-40°F) to +60°C (+140°F)
- Protection Modes — Discrete All Mode L-N/Pos-Neg (normal mode), L-G/Pos-Gnd and N-G/Neg-Gnd (common mode)
- Input Power Frequency — 0 – 64 Hz (ac)
- Response Time — <1 nanosecond
- Maximum Continuous Operating Current — 10 Amps
- Circuit Interrupt — Reference installation instructions for details

Maximum EMI/RFI Attenuation — Mil-Std-220

1 kHz	10 kHz	100 kHz	1 MHz	10 MHz	Maximum Attenuation Frequency
0 dB	11 dB	29 dB	30 dB	22 dB	41 dB @ 14 MHz



Performance Data

ANSI/IEEE C62.41-1991 Measured Limiting Voltage*

UL SVR

Available Models	Peak Surge Current	MCOV	A1 Ring Wave 2 kV, 67 A 180° Phase Angle		B3/C1 Impulse Wave 6 kV, 3 kA 90° Phase Angle		UL 1449-2 Suppressed Voltage Ratings
			L-N L-G, N-G	L-N L-G, N-G	L-N L-G, N-G	L-N L-G, N-G	
HS-DIN-24+	25 kA	30 Vac 38 Vdc	60 80, 70	60 80, 70	150 170, 170	N/A	
HS-DIN-48+	25 kA	50 Vac 65 Vdc	60 120, 70	60 120, 70	200 220, 210	N/A	
HS-DIN-120	40 kA	150 Vac 200 Vdc	70 120, 70	220, 280, 70	460 530, 510	400 400, 900	
HS-DIN-250	40 kA	320 Vac 300 Vdc	70 120, 60	400 450, 60	940 1040, 1010	900 900, 900	

*Test environment: all units tested at terminals, time base = 1 ms. All measurements referenced from zero volts per NEMA® LS-1.

+Static test only, phase angle does not apply.

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