


**COMPONENT  
LEVEL FUSING**

# HS-DIN Series

## GENERAL SPECIFICATIONS

**Description:** Series or parallel wired, terminal strip connected, Multi-stage hybrid **Active Tracking Network (ATN<sup>®</sup>)** 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, micro-processor 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 UL1449 SECOND EDITION & cUL, UL1283 filter, CSA

**Manufacturer Qualifications:** ISO 9001:1994 Quality System Certification BSI FM 30833

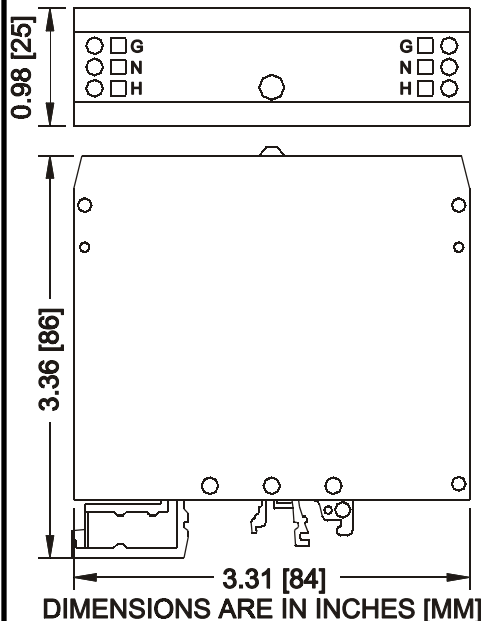
## MECHANICAL SPECIFICATIONS

**Enclosure:** Polyamide, Nylon 6,6 UL94V-0

**Connection:** Wire clamping box terminals; 24 AWG (.25 mm<sup>2</sup>) – 12 AWG (4 mm<sup>2</sup>)

**Shipping Weight:** ≈ .45 kg (1 lb.)

**Operating Temperature:** -40° C (-40° F) to +60° C (+140° F)



## ELECTRICAL/PERFORMANCE SPECIFICATIONS

**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

**Short Circuit Current Capacity:** 10 kAIC with Class R fuse

### 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

Model	Peak Surge Current	MCOV	ANSI/IEEE C62.41-1991 Measured Limiting Voltage*			UL SVR
			A1 Ring Wave 2 kV, 67 A 180° Phs Angle	A1 Ring Wave 2 kV, 67 A 90° Phs Angle	B3/C1 Impulse Wave 6 kV, 3 kA 90° Phs 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, 400
 HS-DIN-250	40 kA	320 VAC 300 VDC	70 120, 60	400 450, 60	940 1040, 1010	800 800, 800

\*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.