



**COMPONENT
 LEVEL FUSING**

HS-30A Models

GENERAL SPECIFICATIONS

Description: Series or parallel wired, terminal strip connected, Multi-stage hybrid Active Tracking Network (ATN®) enhanced sine wave tracking surge protective device.

Application: Dedicated AC power circuits, ≤30 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, UL1283

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



MECHANICAL SPECIFICATIONS

Enclosure: ABS Plastic UL94-5VA

Connection: Wire clamping box terminals; Minimum 22 AWG (0,34 mm²) wire size – Maximum 12 AWG (4,0 mm²) wire size

Weight: ≈ 1 lb (.45 kg)

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

ELECTRICAL/PERFORMANCE SPECIFICATIONS

Circuit Description: Multi-stage hybrid network utilizing circuit encapsulation and Advanced Surge Path Technology

Protection Modes: All Mode: Dedicated L-N (normal mode), Dedicated L-G, N-G (common mode)

Input Power Frequency: 0-64 Hz (AC)

Response Time: Active <1 nanosecond

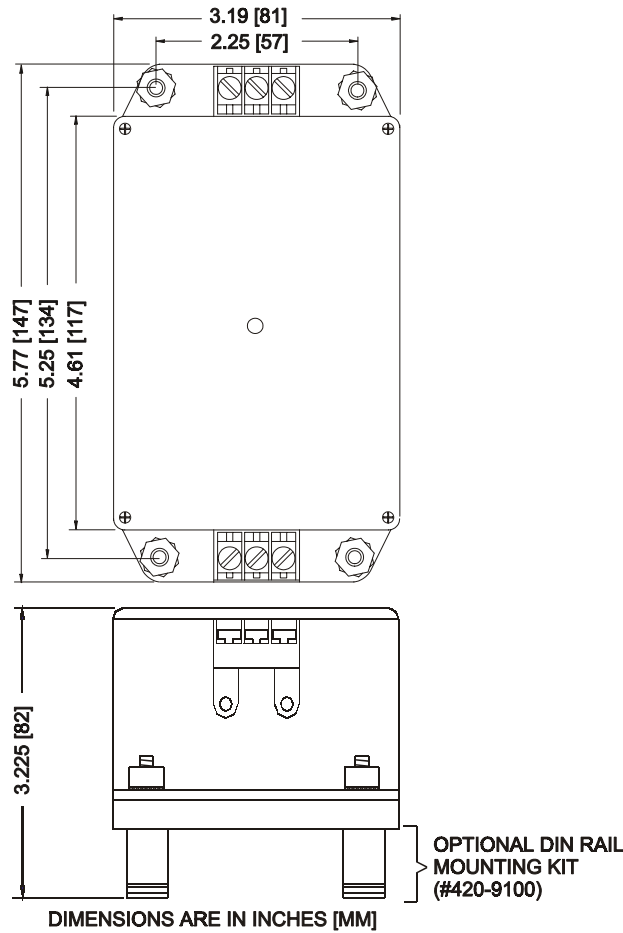
Maximum EMI/RFI Attenuation – Mil-Std-220

1 kHz	10 kHz	100 kHz	1 MHz	10 MHz	Maximum Attenuation Frequency
3 dB	21 dB	38 dB	36 dB	15 dB	47dB @ 16 MHz

Maximum Continuous Operating Current: 30 Amps rms up to 250 volts

Short Circuit Current Rating: 200 kA when protected by class R, 30 Amp fuses

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Available Models	Peak Surge Current	Nominal System Voltage (AC-Vrms, DC-Vpk)	ANSI/IEEE C62.41-1991 Measured Limiting Voltage*			UL SVR
			A1 Ring Wave 2 kV, 67 A 180° Phs Angle	A3 Ring Wave 6 kV, 200 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
IT US HS-120-30A	80 kA/40 kA	48-150 VAC 48-200 VDC	30 70, 50	240 340, 140	430 420, 430	400 400, 400
IT US HS-250-30A	80 kA/40 kA	120-275 VAC 120-300 VDC	60 90, 50	400 520, 140	760 790, 770	800 800, 800

*Test Environment: Positive polarity. Tested with AC power applied. All units tested at terminals, time base = 1 ms. All measurements referenced from zero volts per NEMA LS-1.