



HS-DIN-IP 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

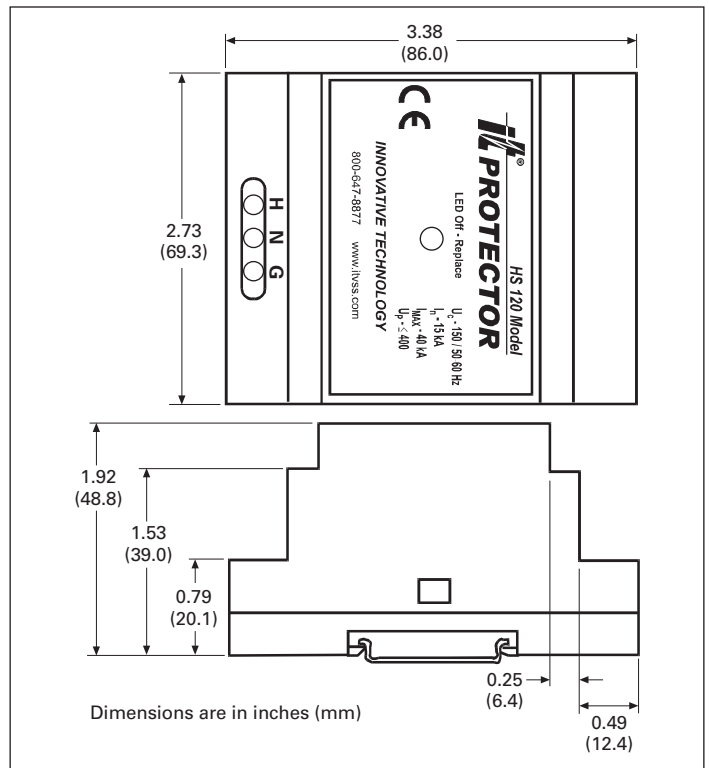
- Description — 40 kA, parallel wired, terminal strip connected, Multi-stage Hybrid **A**ctive **T**racking **N**etwork (ATN®) surge protective device
- Application — Dedicated ac power circuits feeding a wide variety of mission critical and general purpose individual loads
- Warranty — Ten-Year Free 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 — ABS Plastic UL94V-0
- Connection — Wire clamping box terminals; minimum 22 AWG (0.34 mm²) wire size – maximum 12 AWG (4.0 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 (common mode)
- Input Power Frequency — 47 – 64 Hz (ac)
- Response Time — <1 nanosecond
- 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	29 dB	14 dB	34 dB @ 305 kHz



Performance Data

ANSI/IEEE C62.41-1991 Measured Limiting Voltage*
(All results peak \pm 10%)

Model	MCOV 50/60 Hz (U _c)	UL 1449-2 Suppressed Voltage Ratings	PTE Models A1 Ring Wave 2 kV, 67 A 180° Phase Angle	PTE Models A1 Ring Wave 2 kV, 67 A 90° Phase Angle	PTE Models B3/C1 Impulse Wave 6 kV, 3 kA 90° Phase Angle	IEC 61643-1 Parameters			
		L-N L-G, N-G	L-N L-G, N-G	L-N L-G, N-G	L-N L-G, N-G	I _n	I _{max}	U _p	Class
HS-DIN-120 IP	150 Vac	400	60	230	490	15 kA	40 kA	< 400	2/3
		400, 400	120, 60	290, 60	530, 490				
HS-DIN-250-IP	320 Vac	800	60	400,	980	15 kA	40 kA	< 800	2/3
		900, 800	120, 70	450, 60	1070, 1040				

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

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