



HT Model

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

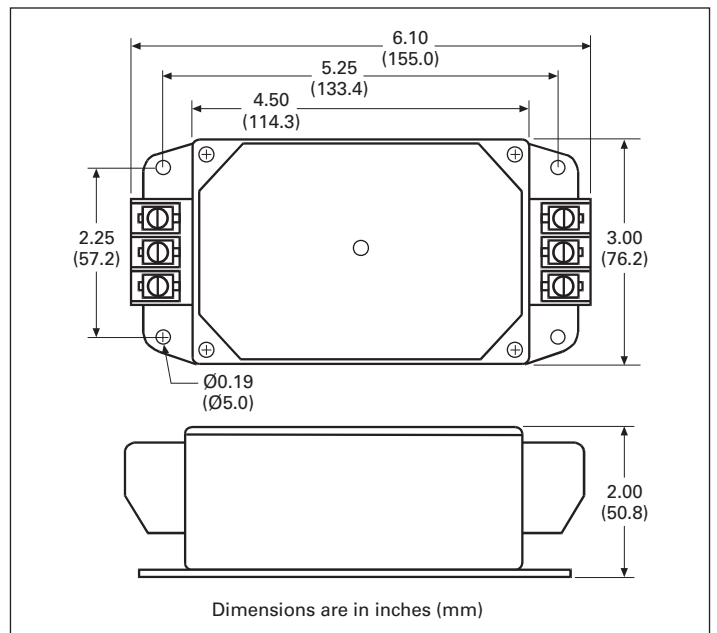
- Description — Series or parallel wired, terminal strip connected, **T**hreshold **S**uppression **N**etwork (**TSN**) transient suppression device
- Application — Dedicated ac and dc power circuits operating at 5–275 Vac / 5–300 Vdc, ≤30 Amps, feeding general purpose loads
- Warranty — Ten-Year Free Replacement
- Unit Listings — Recognized components under UL® 1449 Second Edition and cUL®, UL 1283 filter, CSA®
- Manufacturer Qualifications – ISO® 9001:1994 Quality System Certification BSI FM 30833

Mechanical and Electrical Features

- Enclosure — ABS Plastic UL94-5VA
- Connection — Wire clamping box terminals
- Weight — ≈1 lb (0.45 kg)
- Operating Temperature — -40°F (-40°C) to +140°F (+60°C)
- Maximum Continuous Operating Current — 30 Amps
- Input Power Frequency — 0 – 400 Hz (ac)
- Response Time — ≤1 nanosecond
- Protection Modes — All mode: L-N/Pos-Neg (normal mode), L-G/Pos-Gnd (common mode)
- Circuit Diagnostics — LED indicator, normally on
- 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	0 dB	5 dB	25 dB	14 dB	53 dB @ 2.8 MHz



Performance Data

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

UL SVR

Available Models	Peak Surge Current	Nominal System Voltage	A1 Ring Wave 2 kV, 67 A 180° Phase Angle		A3 Ring Wave 6 kV, 200 A 90° 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	L-N L-G, N-G	L-N L-G, N-G	
HT-24-30A+	30 kA	5 – 30 Vac 5 – 38 Vdc	100 100, 110	100 100, 110	150 150, 180	150 160, 170	N/A **		
HT-48-30A+	30 kA	24 – 50 Vac 24 – 65 Vdc	140 130, 140	140 130, 140	180 170, 160	200 190, 170	N/A **		
HT-120-30A	80 kA	48 – 150 Vac 48 – 200 Vdc	330 330, 350	350 350, 350	380 360, 380	400 430, 420	400 400, 400		
HT-250-30A+	80 kA	120 – 275 Vac 120 – 300 Vdc	650 650, 630	630 610, 600	770 700, 680	790 780, 770	800 800, 800		

*Test environment: Positive polarity. HT-24-30A & HT-48-30A tested static, others tested with ac power applied. 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.

**Underwriters Laboratories (UL®) does not list TVSS products designed to operate below 120 Vrms.

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Eaton Corporation
Innovative Technology TVSS Products
 1000 Cherrington Parkway
 Moon Township, PA 15108-4312
 USA
 Phone: 1-800-525-2000
 Web: www.itvss.com



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