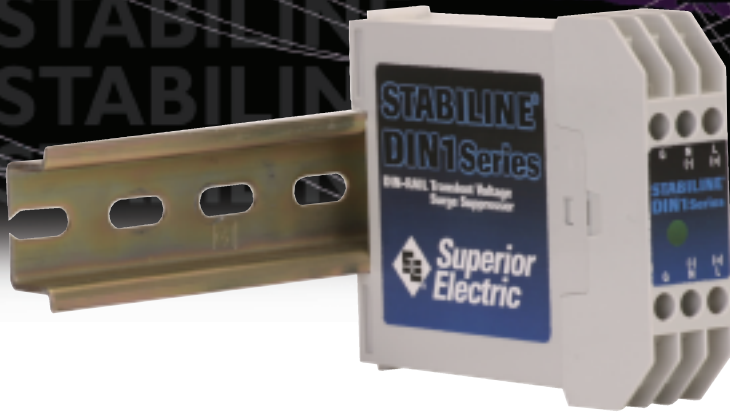


STABILINE®

DIN1 Series-Transient Voltage Surge Suppressors
Parallel-Connected Design (For use in Series and Parallel Applications)



Din-Rail Suppression Filter System for Instantaneous Protection

DIN1 Series Features

- ◆ **Din-Rail Mounting**
- ◆ **15kA Surge Amp Capacity Protection per Mode**
- ◆ **15A Maximum Continuous Operating Current**
- ◆ **Single Phase 24, 48, 120 and 250 VAC & VDC Models**
- ◆ **Ultra Compact, Fail-safe Design**
- ◆ **Dual Component-Level Fusing**
- ◆ **High-frequency Noise Filtering**
- ◆ **Hard-wired via Box Terminals**
- ◆ **LED Visual Protection Status**
- ◆ **10-Year Warranty**
- ◆ **UL and cUL Recognized**

DIN1 Series Benefits

- ◆ **Extends Equipment Life**
- ◆ **Increased Uptime**
- ◆ **Provides Higher System Reliability**
- ◆ **Increases Product Value**
- ◆ **Offers Low-cost Protection**
- ◆ **Reduces Maintenance Costs**
- ◆ **Provides Point-of-use Protection**
- ◆ **Eliminates System Upset**

DIN1 Series Transient Voltage Surge Suppressors deliver worry-free performance with an innovative and proven technology design. All models provide surge protection against harmful transient voltages and high-frequency noise that exceed the nominal operating voltage of AC and DC critical dedicated control loads.

Ideal for protecting PLCs, fire-alarm panels, motion control systems, electric access readers, POS hardware, building management systems and other microprocessor based loads. The DIN1 Series unit is installed/connected in either Series or Parallel with the line and the equipment to be protected. The DIN1 contains no line/load sensitive components and therefore can be connected in any orientation.

DIN1 Series Transient Voltage Surge Suppressors respond reliably and repeatedly in less than 1 nanosecond. The fail-safe design incorporates thermal fuse links and TMOVs, and dual Component-Level Fusing (CLF) are standard in each DIN1 unit. All models include an LED to visually indicate that protection is active. Units weigh one pound and measure an ultra-compact 3.23" H x .89" W x 3.99" D. The 120 and 250 volt models are recognized under UL 1449 2nd Edition as TVSS, UL 1283 as Electromagnetic Filter and cUL.

For ease of installation, all DIN1 Series units are hard-wired connected via box terminals using 22 AWG - 12 AWG conductor. All DIN1 units carry a ten year unlimited free replacement warranty.

Model Number	System Voltage/Service Configurations
DIN1-15-24-1G-15	24 VAC/VDC, 1Ø, 2-Wire, w/ground
DIN1-15-48-1G-15	48 VAC/VDC, 1Ø, 2-Wire, w/ground
DIN1-15-120-1G-15	120 VAC/VDC, 1Ø, 2-Wire, w/ground
DIN1-15-250-1G-15	250 VAC/VDC, 1Ø, 2-Wire, w/ground

ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002
Measured Limited Voltage

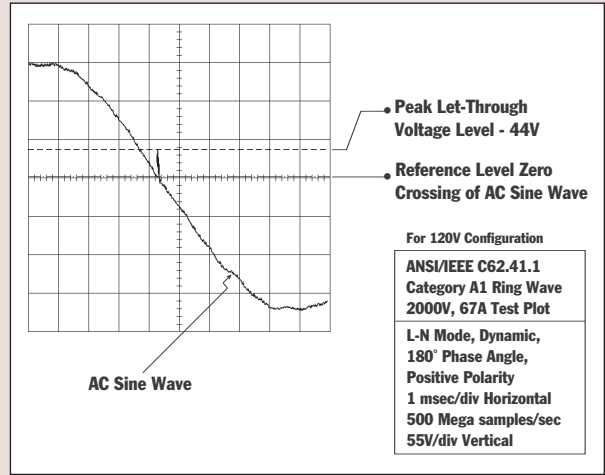
Model Number	System Voltage	System Configuration	Protection Mode	(AC) MCOV	Measured Limited Voltage			UL SVR
					All Models A1 Ring Wave 2kV, 67A 180° Phase Angle	All Models A3 Ring Wave 6kV, 200A 180° Phase Angle	All Models B3/C1 Combo Wave 6kV, 3kA 90° Phase Angle	UL 1449 2nd Edition Suppressed Voltage Ratings
DIN1-15-24-1G-15	5-30 VAC	1-Phase	L-N	30V	44V	83V	152V	N/A
	5-38 VDC	2-Wire + Ground	L-G	30V	75V	91V	173V	N/A
				N-G	30V	50V	85V	173V
DIN1-15-48-1G-15	24-50 VAC	1-Phase	L-N	50V	44V	115V	197V	N/A
	24-65 VDC	2-Wire + Ground	L-G	50V	97V	145V	225V	N/A
				N-G	50V	49V	117V	193V
DIN1-15-120-1G-15	48-150 VAC	1-Phase	L-N	150V	47V	127V	268V	400V
	48-200 VDC	2-Wire + Ground	L-G	150V	92V	239V	326V	400V
				N-G	150V	47V	128V	470V
DIN1-15-250-1G-15	120-275 VAC	1-Phase	L-N	275V	49V	130V	512V	800V
	120-300 VDC	2-Wire + Ground	L-G	275V	90V	234V	616V	800V
				N-G	275V	48V	130V	960V

All voltages are peak values measured from the insertion point at the phase angles referenced above using a 10 μs/div display rate and 500 MS/s sampling rate.

PERFORMANCE SPECIFICATIONS

EMI/RFI FILTER ATTENUATION-MIL STANDARD 220B

Frequency	Attenuation
1kHz	1 dB
10kHz	5 dB
100kHz	29 dB
1MHz	32 dB
10MHz	8 dB
20MHz	9 dB
Max. attenuation	34 dB @ 495kHz



GENERAL SPECIFICATIONS

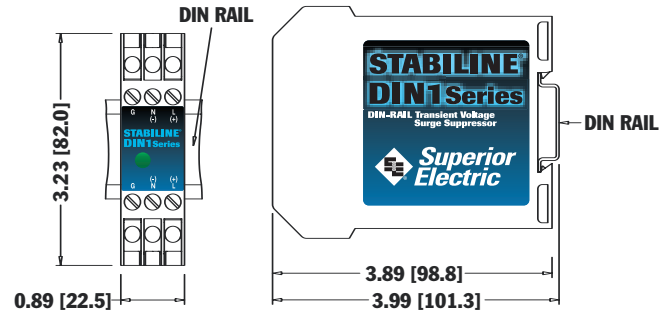
Maximum Rated Surge Current	15kA per Mode/30kA per Phase
Application	ANSI/IEEE C62.41 Location C, B & A
Design	Ultra Compact, Fail-safe Design with Dual Component-Level Fusing (CLF)
Warranty	Ten Years - Unlimited Free Replacement
Standards Compliance (120 & 250 volt Models)	UL 1449 - Recognized (2nd Edition) as TVSS, UL 1283 as Electromagnetic Filter, cUL

ELECTRICAL SPECIFICATIONS

Modes of Protection	All modes. L-N, L-G & N-G
Input Frequency Range	47-64 Hz
Maximum Continuous Operating Current	15 Amps
Response Time	< 1 nanosecond
Protection Present Status	Illuminated LED Indicates Protection Active
Short Circuit Current Rating	100kAIC Short Circuit Current Rating with a 15 Amp Class T Fuse rated at 300 VAC

MECHANICAL SPECIFICATIONS

Dimensions	H x W x D (Inches)	3.23 x 0.89 x 3.99
	H x W x D (mm)	(82.0 x 22.5 x 101.3)
Enclosure		ABS Plastic UL94-5VA
Connection		Series/In-line or Parallel; Hard-wired via Box Terminals
Minimum Wire Size		#22 AWG THHN
Maximum Wire Size		#12 AWG THHN
Mounting		Din-Rail
Temperature Operating & Storage		- 40° C to 70° C (- 40° F to 160° F)
Humidity		5 - 95% Non-condensing
Weight		1 lb (0.45 kg)



All measurements in inches [mm]

The information and specifications stated in this document are subject to change without notice.



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