

# TSG Surge Reduction Filter, Three Phase



## FEATURES

Incorporates TSG and TD Technologies high-performance protection

High surge rating ideal for exposed critical service entrance applications

Surge reduction filters reduce rate-of-voltage rise (dv/dt), provide improved protection for electronic equipment and dramatically reduce let-through voltage

Escutcheon panel provides improved safety

## SPECIFICATIONS

**Rated Load Current Range:** 400 - 2000 A

Catalog Number	TSG-SRF31250	TSG-SRF32000
Article Number	700195	700215
Nominal System Voltage (Un)	220/380 VAC 240/415 VAC	220/380 VAC 240/415 VAC
Max Continuous Operating Voltage (Uc)	275/476 VAC	275/476 VAC
Stand-off Voltage	440/762 VAC	440/762 VAC
Rated Load Current (IL)	1250A	2000A
Voltage Protection Level (Up), L-N	500 V @ 3 kA 500 V @ 20 kA	500 V @ 3 kA 500 V @ 20 kA
Max Discharge Current (Imax), Per Mode	130kA 8/20 $\mu$ s	130kA 8/20 $\mu$ s
Impulse Current (Iimp)	50kA 10/350 $\mu$ s	50kA 10/350 $\mu$ s

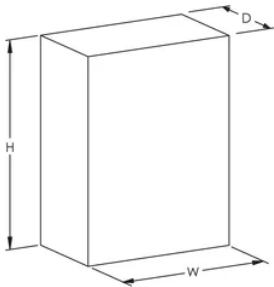
Catalog Number	TSG-SRF31250	TSG-SRF32000
Filtering	-40 dB @ 100 kHz	-40 dB @ 100 kHz
Frequency	50 - 60 Hz	50 - 60 Hz
Heat Dissipation	350W	600W
Input Connection	12 mm Stud	12 mm Stud
Output Connection	12 mm Stud	12 mm Stud
Distribution System	3Ph Y 4W+G	3Ph Y 4W+G
Protection Modes	All modes protected	All modes protected
System Compatibility	TN-C TN-C-S TN-S TT	TN-C TN-C-S TN-S TT
Technology	Triggered Spark Gap In-line series low pass sine wave filter	Triggered Spark Gap In-line series low pass sine wave filter
Enclosure Material	Metal	Metal
Enclosure Rating	IP 33	IP 33
Mounting	Wall mount	Wall mount
Status Indication	LED Change-over contact	LED Change-over contact
Depth (D)	315mm	315mm
Height (H)	1650 mm	1650 mm
Width (W)	1200 mm	1200 mm
Unit Weight	288 kg	360 kg
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs UL® 1449 Edition 4 Type 1CA

## ADDITIONAL PRODUCT DETAILS

Back-Up Overcurrent Protection equals Max Line Current (IL) unless otherwise noted.

Back-Up Overcurrent Protection for 40 A and 63 A Rated Units		
Supply Rating	Minimum Circuit Breaker Rating	Minimum Fuse Rating
500 A (10 kAIC Max)	100 A	40 A
750 A (15 kAIC Max)	100 A	63 A
1000 A (20 kAIC Max)	125 A	80 A
2000 A (43 kAIC Max)	160 A	100 A

## DIAGRAMS



## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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