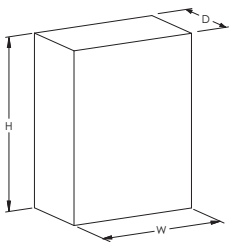


# Surge Reduction Filter N-Series, Single Phase – SRF163N



- High-performance protection incorporating Spark Gap and Transient Discriminating (TD) technologies
- High surge rating ideal for exposed critical service entrance applications
- Reduces let-through voltages and rate-of-voltage rise (dv/dt) and helps provide optimum protection for electronic equipment
- Extreme reliability and simplified design with direct connection from input to output
- Comprehensive front panel status and internal diagnostic LEDs



Part Number	SRF163N
Nominal System Voltage (Un)	220 - 240 VAC
Distribution System	1Ph 2W+G
System Compatibility	TN-C TN-C-S TN-S TT
Rated Load Current (IL)	63 A
Frequency	50 – 60 Hz
Short Circuit Current Rating (SCCR)	43 kA
Heat Dissipation	25 W
Rate of Voltage Rise (dV/dt)	3 V/μs Max
Filtering	-40 dB @ 100 kHz
Input Connection	10 - 35 mm <sup>2</sup>
Output Connection	25 - 120 mm <sup>2</sup>
Protection Modes	All modes protected
Technology	Spark Gap In-line series low pass sine wave filter TD technology with thermal disconnect (50 kA 8/20us secondary stage)
Enclosure Material	Metal
Enclosure Rating	IP 65
Mounting	Wall mount
Status Indication	Front panel LED Internal diagnostic primary and secondary protection LEDs Change-over contact (Form C dry), 250 VAC/30 VDC/5 A, 4 kV isolation
Depth (D)	200 mm

Part Number	SRF163N
Height (H)	300 mm
Width (W)	400 mm
Unit Weight	10,3 kg
Complies With	IEC® 61643-11 Class I, Class II 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
Certifications	CE, ERICO SRF Series
Standard Packaging Quantity	1 pc
UPC	78285691538
EAN-13	0782856915386

AS1768 Ratings		
Part Number	SRF163N	SRF1125N
Max Continuous Operating Voltage	310 VAC	
Maximum Surge Current, L-N	130 kA 8/20 µs 50 kA 10/350 µs	
Maximum Surge Current, N-PE	130 kA 8/20 µs 50 kA 10/350 µs	
Voltage Protection Level, L-N	150 V @ 3 kA 8/20 µs 200 V @ 20 kA 8/20 µs	250 V @ 3 kA 8/20 µs 350 V @ 20 kA 8/20 µs

IEC 61643-11 Ratings		
Part Number	SRF163N	SRF1125N
Max Continuous Operating Voltage (Uc)	255 VAC	
Temporary Overvoltage, L-N	442 VAC 2 hours	
Temporary Overvoltage, N-PE	1200 VAC 200 ms	
Impulse Current (Iimp)	10kA 10/350 µs	
Voltage Protection level (Up), L-N @ Iimp	450 V	
Nominal Discharge Current (In)	20kA 8/20 µs	
Voltage Protection level (Up), L-N @ In	450 V	500 V
Voltage Drop	0.1 % Max	

IEC 61643-11 Annex A specifies Max Continuous Operating Voltage (Uc) as 255 VAC.

IEC 61643-11 test procedure limits maximum Impulse Current (Iimp) to 10kA due to internal product safety fusing.

IEC 61643-11 recommends a maximum preferred value for Nominal Discharge Current (In) of 20 kA.

IEC 61643-11 Temporary Overvoltage tests are passed in withstand mode.

Upstream overcurrent protection not exceeding Rated Load Current (IL) shown above must be installed ahead of the surge reduction filter.

ANSI is a registered trademark of American National Standards Institute. IEC is a registered trademark of the International Electrotechnical Commission. IEEE is a registered trademark of The Institute of Electrical and Electronics Engineers, Inc.

#### 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.erico.com](http://www.erico.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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