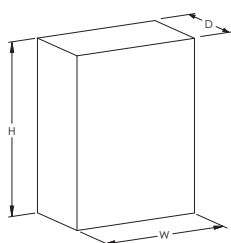


# Surge Reduction Filter N-Series, Single Phase – SRF1125N



- 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	SRF1125N
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)	125 A
Frequency	50 – 60 Hz
Short Circuit Current Rating (SCCR)	43 kA
Heat Dissipation	25 W
Rate of Voltage Rise (dV/dt)	8 V/μs Max
Filtering	-40 dB @ 100 kHz
Input Connection	25 - 120 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	SRF1125N
Height (H)	300 mm
Width (W)	400 mm
Unit Weight	12.3 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 $\mu$ s, 10 kA 10/350 $\mu$ s
Certifications	CE RCM
Standard Packaging Quantity	1 pc
UPC	78285691540
EAN-13	0782856915409

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

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 $\mu$ s	
Voltage Protection level (Up), L-N @ Iimp	450 V	
Nominal Discharge Current (In)	20kA 8/20 $\mu$ s	
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.

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#### WARNING

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