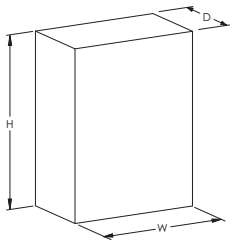
# Surge Reduction Filter N-Series, Single Phase – SRF1125N

- 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<br>TN-C-S<br>TN-S<br>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 mm² |
| Output Connection | 25 - 120 mm² |
| Protection Modes | All modes protected |
| Technology | Spark Gap<br>In-line series low pass sine wave filter<br>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<br>Internal diagnostic primary and secondary protection LEDs<br>Change-over contact (Form C dry), 250 VAC/30 VDC/5 A, 4 kV isolation |
| Depth (D) | 7.87" |

| Part Number | SRF1125N |
|---|---|
| Height (H) | 11.81" |
| Width (W) | 15 3/4" |
| Unit Weight | 27.12 lb |
| Complies With | IEC® 61643-11 Class I, Class II<br>ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C<br>ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs |
| Certifications | CE<br>RCM |
| Standard Packaging Quantity | 1 pc |
| UPC | 78285691540 |
| EAN-13 | 0782856915409 |

| 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.