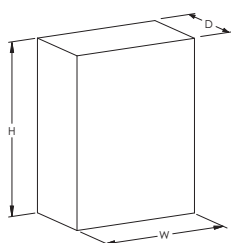


Surge Reduction Filter N-Series, Single Phase – SRF163N



- 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 ² |
| Output Connection | 25 - 120 mm ² |
| 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 RCM |
| 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

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

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