

TECHNICAL DATA SHEET

LPI® DLSF Surge Filters

Features



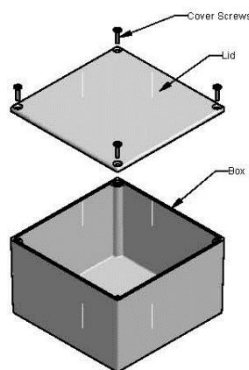
- 3-Stage protection ensures lowest let-through voltage to protected equipment
- Suitable for single phase TT, TN-S and TN-C-S distribution systems
- Impulse discharge current rating of 25 kA + 25 kA 8/20 μs Ph-N
- Provides protection in all modes: L1-L2, L1-GND, L2-GND.
- Designed to withstand fault and over-voltage conditions as per IEC 61643
- Non-saturating inductors – dv/dt of the incoming surge reduced by up to 100 times
- Internal thermal fusing of protection elements ensures safe end-of-life operation
- Power and Status indication with voltage free alarm contacts

Technical Data

| Electrical Specifications | DLSF-XXA-24V | DLSF-XXA-230V | DLSF-XXA-385V | DLSF-XXA-480V |
|---|---|-----------------------------------|-----------------------------------|-----------------------------------|
| Nominal Operating Voltage, U_n : | 12-24 V AC or DC | 110 V _{AC} (50/60 Hz) | 240 V _{AC} (50/60 Hz) | 277 V _{AC} (50/60 Hz) |
| Max Continuous Operating Voltage U_c : | 30 V _{AC} / 38 V _{DC} | 230 V _{AC} | 385 V _{AC} | 480 V _{AC} |
| Maximum Load Current, I_L DLSF-8A-xxxV DLSF-16A-xxxV DLSF-20A-xxxV | | | 8 A 16 A 20 A | |
| Voltage Protection Level, U_P | < 80 V | < 700 V | < 1200 V | < 1500 V |
| Power distribution systems: | Low Voltage DC | TT, TN-S, TN-C-S (MEN) | | |
| Maximum Surge Rating, $I_{MAX}(8/20\mu s)$ L – L L – GND | 8 kA + 8 kA 8 kA | 25 kA + 25 kA 25 kA | | |
| Nominal Surge Rating, I_n (8/20μs) L – L L – GND | 4 kA + 4 kA 4 kA | 10 kA + 10 kA 10 kA | | |
| Operating time: | < 1 ns | | | |
| Protection status indication: | LED indicators for POWER and PROTECTION OK. | | | |
| Remote Status indication: | Normally Closed voltage free alarm contact | | | |
| Operating Environment: | -40°C to +50°C, 0 – 95% humidity | | | |
| Warranty: | 5 years - Contact LPI for full warranty details | | | |

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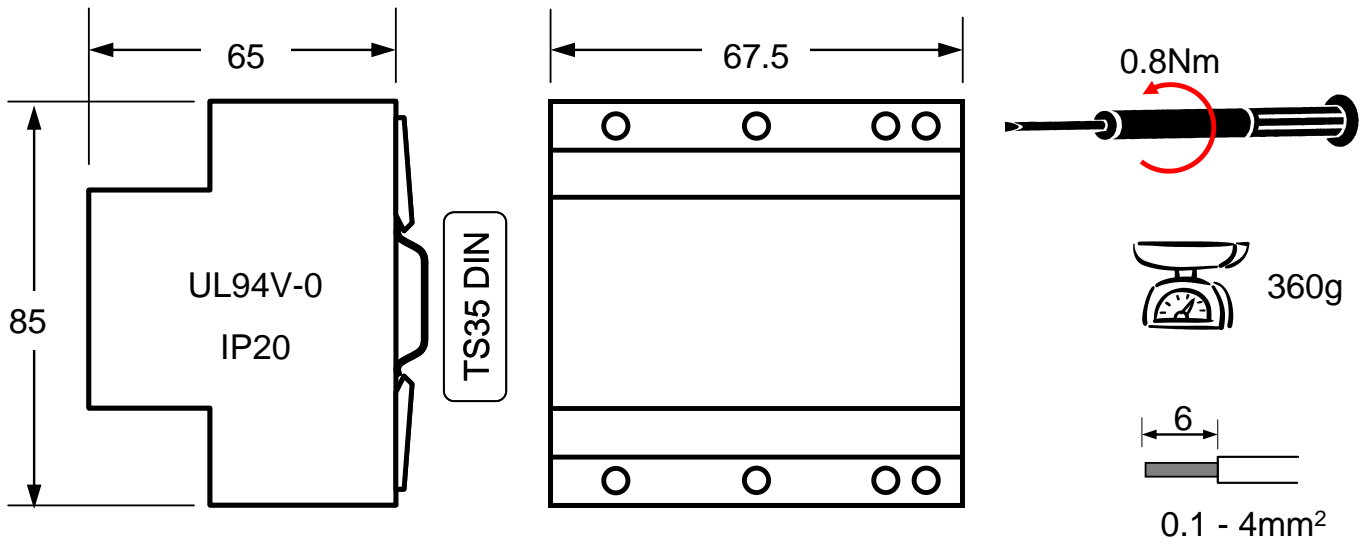
| Ordering Code | Description | Rated Voltage L-L | Rated Current |
|---------------|--|---|---------------|
| DLSF-8A-24V | Surge Filter, 1Ph, 30 VAC, 8 A, 8 kA+8 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 12 – 24 V _{AC/DC} | 8 A |
| DLSF-16A-24V | Surge Filter, 1Ph, 30 VAC, 16 A, 8 kA+8 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 12 – 24 V _{AC/DC} | 16 A |
| DLSF-20A-24V | Surge Filter, 1Ph, 30 VAC, 20 A, 8 kA+8 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 12 – 24 V _{AC/DC} | 20 A |
| DLSF-8A-230V | Surge Filter, 1Ph, 230 VAC, 8 A, 25 kA+25 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 100 – 120 V _{AC} (50-60 Hz) | 8 A |
| DLSF-16A-230V | Surge Filter, 1Ph, 230 VAC, 16 A, 25 kA+25 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 100 – 120 V _{AC} (50-60 Hz) | 16 A |
| DLSF-20A-230V | Surge Filter, 1Ph, 230 VAC, 20 A, 25 kA+25 kA 8/20μs L-L, Power & Status Indication, Alarm Contacts | 100 – 120 V _{AC} (50-60 Hz) | 20 A |
| DLSF-8A-385V | Surge Filter, 1Ph, 385 VAC, 8 A, 25 kA+25 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 200 – 240 V _{AC} (50-60 Hz) | 8 A |
| DLSF-16A-385V | Surge Filter, 1Ph, 385 VAC, 16 A, 25 kA+25 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 200 – 240 V _{AC} (50-60 Hz) | 16 A |
| DLSF-20A-385V | Surge Filter, 1Ph, 385 VAC, 20 A, 25 kA+25 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 200 – 240 V _{AC} (50-60 Hz) | 20 A |
| DLSF-8A-480V | Surge Filter, 1Ph, 480 VAC, 8 A, 25 kA+25 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 220 – 277 V _{AC} (50-60 Hz) | 8 A |
| DLSF-16A-480V | Surge Filter, 1Ph, 480 VAC, 16 A, 25 kA+25 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 220 – 277 V _{AC} (50-60 Hz) | 16 A |
| DLSF-20A-480V | Surge Filter, 1Ph, 480 VAC, 20 A, 25 kA+25 kA 8/20 μs L-L, Power & Status Indication, Alarm Contacts | 220 – 277 V _{AC} (50-60 Hz) | 20 A |



Add M to prefix for separate metal Enclosure

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Mechanical Details



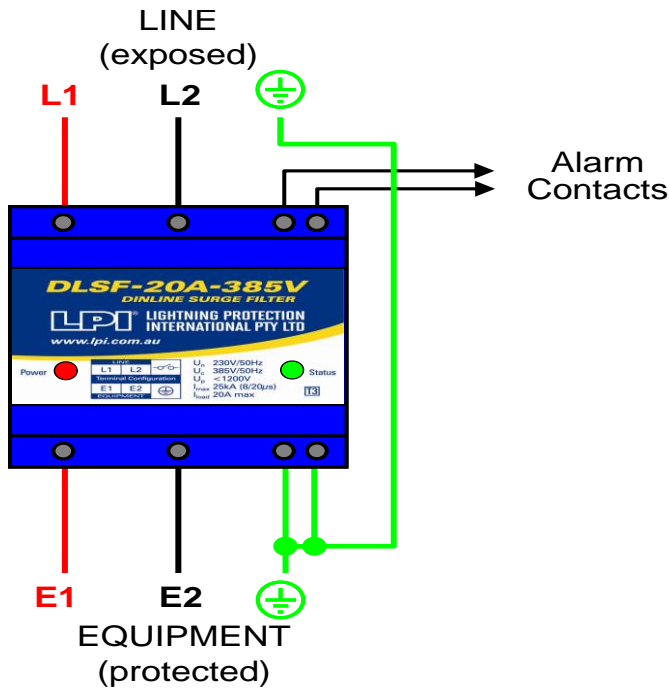
Installation Details



All installation work **must** be carried out by licensed electrical personnel in accordance with local standards and regulations.



The power **must** be disconnected. Ensure no dangerous voltages exist prior to commencing installation work.



| | | |
|----------------|--|--|
| | | |
| POWER | | |
| STATUS | | |
| ALARM CONTACTS | | |

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