

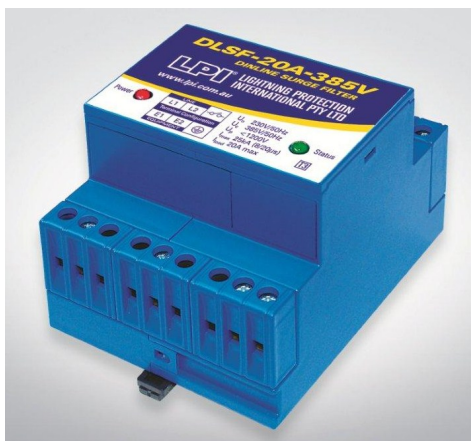
TECHNICAL DATA SHEET

LIGHTNING PROTECTION INTERNATIONAL PTY LTD
Comprehensive Lightning and Surge Protection ABN 11 099 190 897



- Direct Strike Protection
- Earthing Products & Solutions
- Surge & Transient Protection for Power, Data, Communications and RF Lines

LPI® DLSF Surge Filters



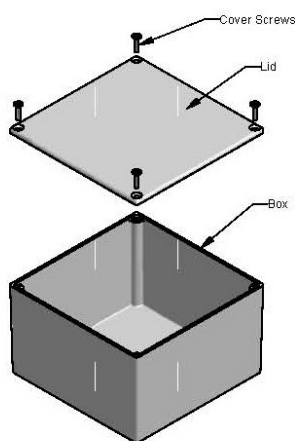
Features

- 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 25kA + 25kA 8/20µs Ph-N
- Provides protection in all modes: L1-L2, L1-GND, L2-GND.
- Designed to withstand fault and over-voltage conditions as per IEC61643
- 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
- 5 Year Warranty

Technical Data

Electrical Specifications	DLSF-XXA-24V	DLSF-XXA-230V	DLSF-XXA-385V	DLSF-XXA-480V												
Nominal Operating Voltage, U_n :	12-24V AC or DC	110V _{AC} (50/60Hz)	240V _{AC} (50/60Hz)	277V _{AC} (50/60Hz)												
Max Continuous Operating Voltage U_c :	30V _{AC} / 38V _{DC}	230V _{AC}	385V _{AC}	480V _{AC}												
Maximum Load Current, I_L DLSF-8A-xxxV DLSF-16A-xxxV DLSF-20A-xxxV	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;">8A</td> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;">8A</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">16A</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">20A</td> </tr> </table>					8A		8A				16A				20A
	8A		8A													
			16A													
			20A													
Voltage Protection Level, U_p	< 80V	< 700V	< 1200V	< 1500V												
Power distribution systems:	Low Voltage DC	TT, TN-S, TN-C-S (MEN)														
Maximum Surge Rating, I_{MAX} (8/20µs) L – L L – GND	8kA + 8kA 8kA	25kA + 25kA 25kA														
Nominal Surge Rating, I_n (8/20µs) L – L L – GND	4kA + 4kA 4kA	10kA + 10kA 10kA														
Operating time:	< 1ns															
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															

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



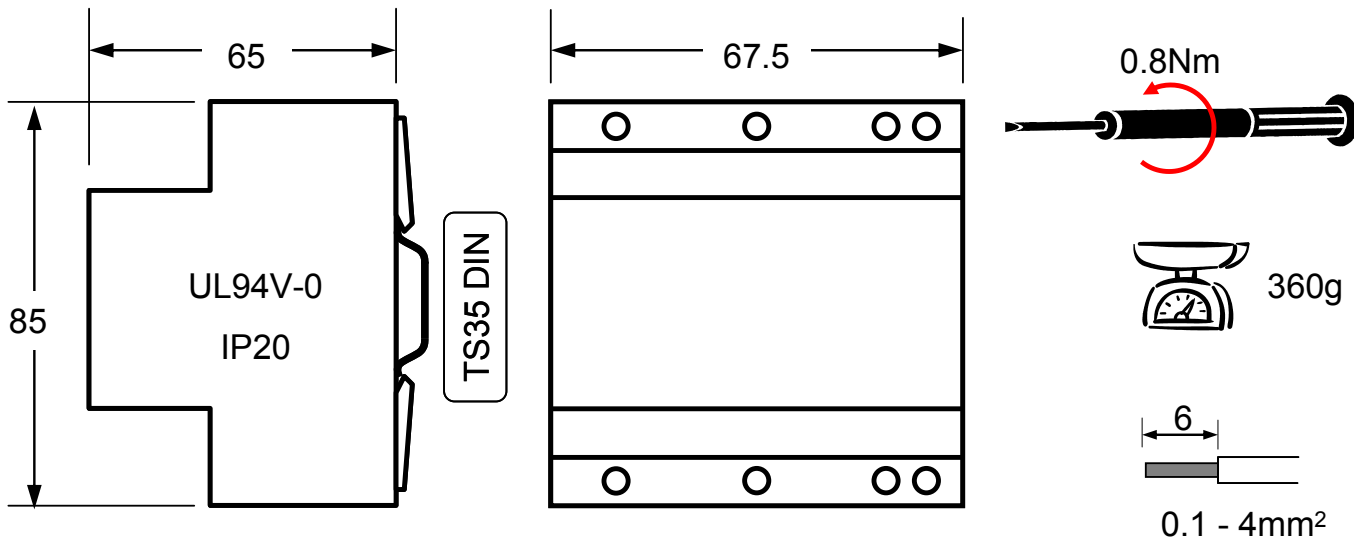
- Add M to prefix for separate metal Enclosure

INSTALLATION INSTRUCTION SHEET

LIGHTNING PROTECTION INTERNATIONAL PTY LTD ABN 11 099 190 897



Mechanical Details



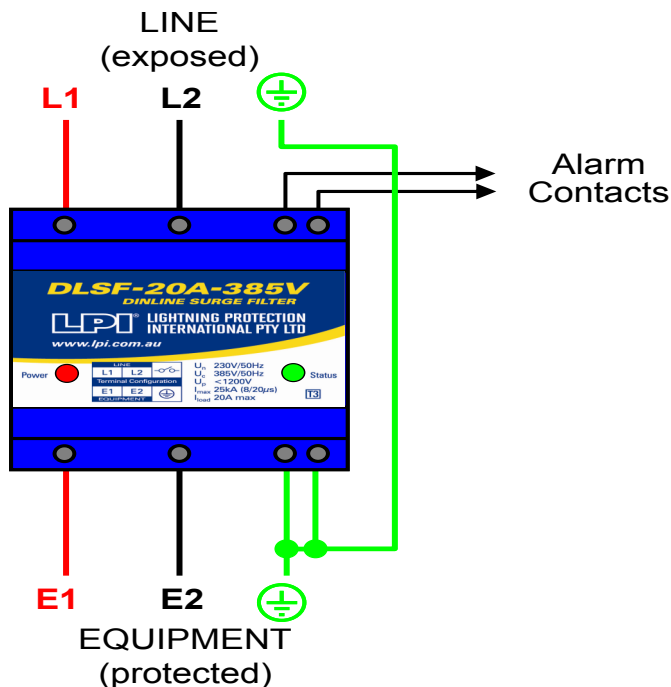
Installation Details



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	⏏	⏏