

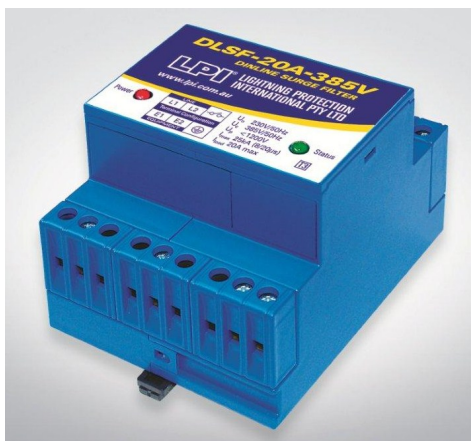
# TECHNICAL DATA SHEET

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



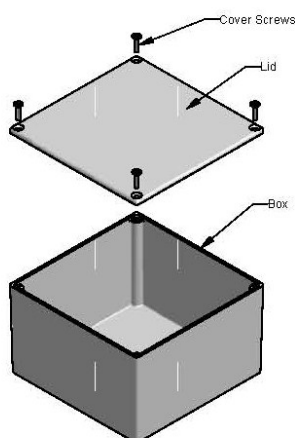
### Features

- 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 <sub>AC</sub> (50/60Hz)	240V <sub>AC</sub> (50/60Hz)	277V <sub>AC</sub> (50/60Hz)
Max Continuous Operating Voltage $U_c$ :	30V <sub>AC</sub> / 38V <sub>DC</sub>	230V <sub>AC</sub>	385V <sub>AC</sub>	480V <sub>AC</sub>
Maximum Load Current, $I_L$ DLSF-8A-xxxV DLSF-16A-xxxV DLSF-20A-xxxV			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
<b>DLSF-8A-24V</b>	Surge Filter, 1Ph, 30VAC, 8A, 8kA+8kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	12 - 24V <sub>AC/DC</sub>	8A
<b>DLSF-16A-24V</b>	Surge Filter, 1Ph, 30VAC, 16A, 8kA+8kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	12 - 24V <sub>AC/DC</sub>	16A
<b>DLSF-20A-24V</b>	Surge Filter, 1Ph, 30VAC, 20A, 8kA+8kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	12 - 24V <sub>AC/DC</sub>	20A
<b>DLSF-8A-230V</b>	Surge Filter, 1Ph, 230VAC, 8A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	100 – 120V <sub>AC</sub> (50-60Hz)	8A
<b>DLSF-16A-230V</b>	Surge Filter, 1Ph, 230VAC, 16A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	100 – 120V <sub>AC</sub> (50-60Hz)	16A
<b>DLSF-20A-230V</b>	Surge Filter, 1Ph, 230VAC, 20A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	100 – 120V <sub>AC</sub> (50-60Hz)	20A
<b>DLSF-8A-385V</b>	Surge Filter, 1Ph, 385VAC, 8A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	200 – 240V <sub>AC</sub> (50-60Hz)	8A
<b>DLSF-16A-385V</b>	Surge Filter, 1Ph, 385VAC, 16A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	200 – 240V <sub>AC</sub> (50-60Hz)	16A
<b>DLSF-20A-385V</b>	Surge Filter, 1Ph, 385VAC, 20A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	200 – 240V <sub>AC</sub> (50-60Hz)	20A
<b>DLSF-8A-480V</b>	Surge Filter, 1Ph, 480VAC, 8A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	220 – 277V <sub>AC</sub> (50-60Hz)	8A
<b>DLSF-16A-480V</b>	Surge Filter, 1Ph, 480VAC, 16A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	220 – 277V <sub>AC</sub> (50-60Hz)	16A
<b>DLSF-20A-480V</b>	Surge Filter, 1Ph, 480VAC, 20A, 25kA+25kA 8/20µs L-L, Power & Status Indication, Alarm Contacts	220 – 277V <sub>AC</sub> (50-60Hz)	20A



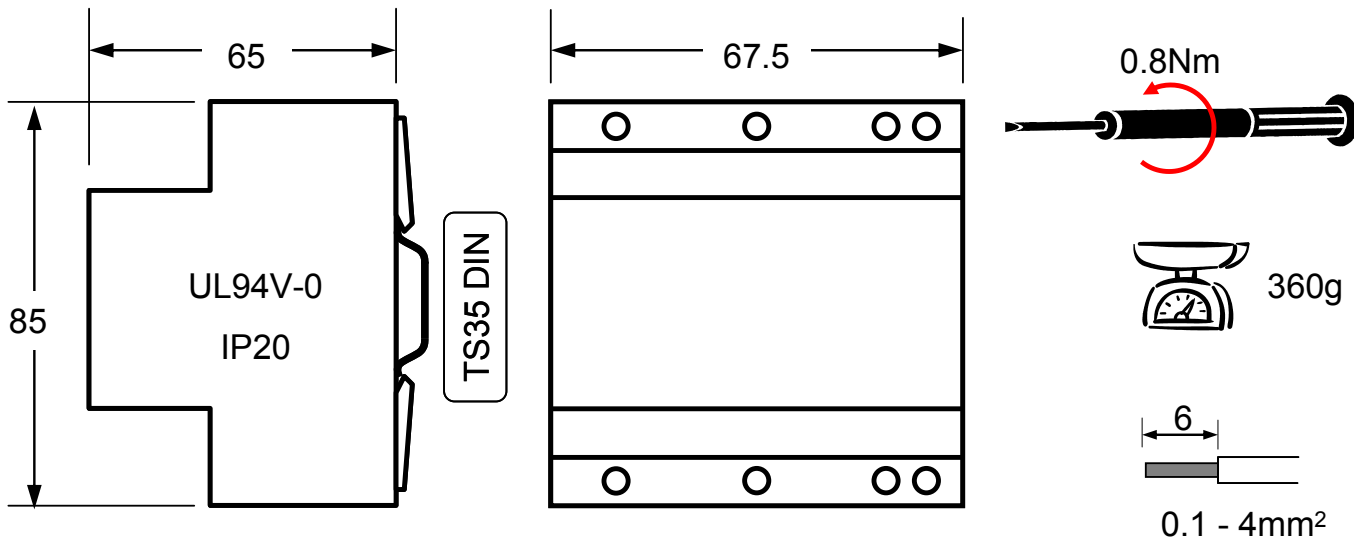
- Add M to prefix for separate metal Enclosure

# INSTALLATION INSTRUCTION SHEET

LIGHTNING PROTECTION INTERNATIONAL PTY LTD ABN 11 099 190 897



## Mechanical Details



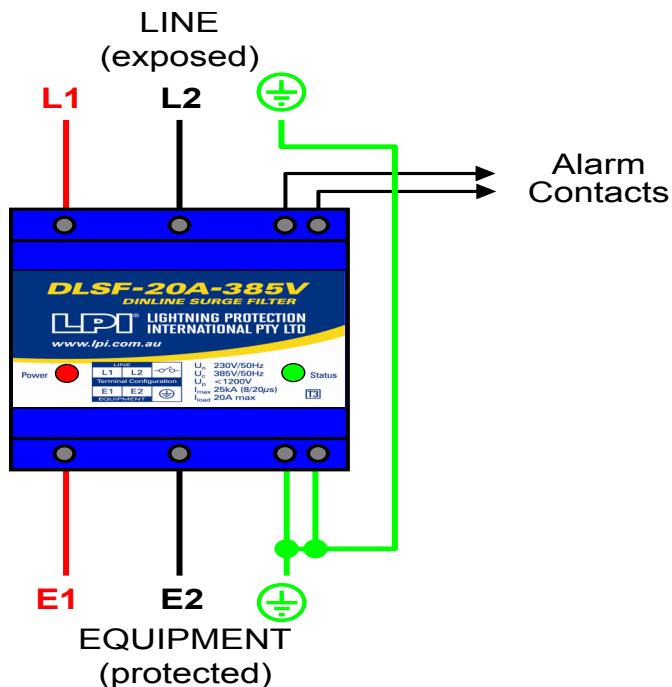
## Installation Details



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	⏏	⏏