

# SSP3-480 Series

3-Point LED Driver Surge Protector  
with 20,000 Amp Max Protection, Phase-Phase

Rev 8-10-2017

Intelligent Device  
**ECOSYSTEM**  
Classic

## Features

SSP3-480 surge protectors are designed for use in conjunction with LED Drivers to provide an additional level of cost-effective protection against powerline disturbances in industrial and commercial applications.

- 3-leaded device that protects all single phase coupling modes (Phase1-Phase2, Phase1-Ground & Phase2-Ground) in accordance with IEEE/ANSI C62.41-2002 select guidelines
- Protects against surges and transients per ANSI C62.41-2002 category C low (6KV, 1.2/50µS & 3KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave
- Protects against surges and transients per new ANSI C82.77-5 2015 category C medium (10KV, 1.2/50µS & 5KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave
- Basic Protection on Line-Ground (L<sub>1</sub>-G) & (L<sub>2</sub>-G) connections of 12,000 Amps (Max)
- Enhanced Surge Rating on Line-Line (L<sub>1</sub>-L<sub>2</sub>) connections of 20,000 Amps (Max) to protect against switching transients found in commercial electrical systems.
- Designated UL 1449 Type 5 Recognized Component in the United States and Canada
- Passes UL1449 Nominal Discharge Current rating of 5,000 Amps in all coupling modes
- At end-of-life, individual surge protection elements will be in short circuit mode for one or more coupling modes
- Maximum surface temperature rated at 90°C
- Operating temperature: -35°C to 85°C (ambient)
- 480V Model: Protection for LED drivers capable of operating at 480V input voltage or with universal input ranges of 277V through 480V or 347V through 480V. Not optimized for use with single voltage devices operating at 277V-only or 347V-only.

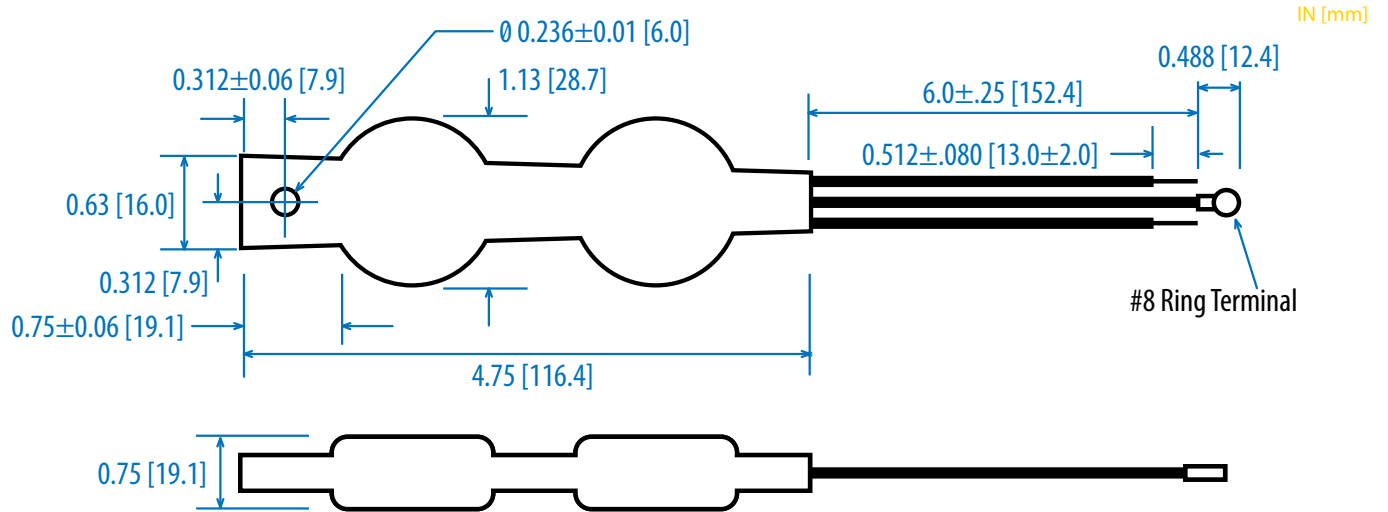


Model	AC Mains Voltage	Max Continuous Operating Voltage		Nom Discharge Current I <sub>n</sub> (kA)	Measured Limiting Voltage MLV (V)	Max Clamping Voltage 8/20 µS @ 20kA	
		AC	DC			Phase1-Phase2	Phase1-Ground Phase2-Ground
SSP3-480	480V	550V	745V	5kA	1880 L <sub>1</sub> -L <sub>2</sub> 2200 L <sub>1</sub> -G, L <sub>2</sub> -G	3800V	2700V

Phase1-Ground Phase2-Ground		Phase1-Phase2	
Pulse rating (8 x 20 µSec)		Pulse rating (8 x 20 µSec)	
Strikes	Surge	Strikes	Surge
1	12,000 A	1	20,000 A
2	8,000 A	2	15,000 A
100	3,000 A	15	10,000 A
1600	750 A	100	3,000 A



**Dimensions**



**Leads:** 6", stripped 0.51"  
**Weight:** 0.15 lbs/68g  
**Gauge:** 14 AWG

**Wiring**

