LED Surge Protection Module **SLP20-320x**

Class II • Class III • Type 2 • Type 3



- · Applicable to class I or II luminaire
- Protection mode: L-N, L-PE, N-PE
- · Built in thermal separation function, higher safety
- Parallel and series connection mode optional, with its own lead
- Excellent surge impact resistance and low residual voltage
- Miniature size and convenient for embedded installation
- · IP67 Water-proof and Dust-proof

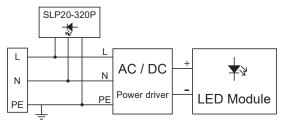
SLP20-320 series thermally protected Surge Protective Device is specially designed to be used in outdoor and commercial LED lighting fixtures for transient overvoltage protection. It is mainly composed of thermally protected varistors and gas discharge tube components. Its built-in thermal disconnect function provides additional protection to prevent catastrophic failure and fire hazard even under the extreme circumstances of varistor end-of-life or sustaining over voltage conditions. The product is connected with LED power driver to provide reliable lightning surge protection, which can effectively prolong the service life and stability of luminaires.

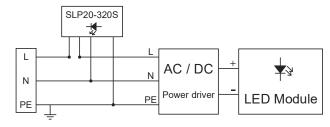
Technical Data

LP20-320x		SLP20-320P	SLP20-320S
C Electrical			
Nominal Operating Voltage (50/60 Hz)	U _n	100-277 V	100-277 V
Max Continuous Operating Voltage (50/60 Hz)	U _c	320 V	320 V
Rated Load Current	IL	-	8 A
Nominal Discharge Current (8/20 µs)	I _n	10 kA	10 kA
Max Discharge Current (8/20 μs)	I _{max}	20 kA	20 kA
Open-Circuit Voltage (1.2/50 µs & 8/20 µs)	U_{oc}	20 kV	20 kV
Voltage Protection Level (@In)	(L-N, L/N-PE) U _p	≤1.5 kV	≤1.5 kV
Follow Current Extinguishing Capability	(N-PE) I _{fi}	100 A _{rms}	100 A _{rms}
TOV Withstand Voltage 5 s	$(L-N)$ U_T	337 V	337 V
TOV Safe Failure 120 min	(L-N) U _T	442 V	442 V
SPD according to IEC/EN61643-11GB/T18802.11	Type 2 + Type 3 / Class II + Class III		
echanical & Environmental			
Operating State / Fault Indication	On normally, Off fault		
Connecting Wires	02 (RV) 1.5 mm ²		
Connection Mode	Parallel connection		
Enclosure Material	Thermoplastic UL 94 V-0		
Operating Temperature Range	-40 °C to +85 °C		
Degree of Protection	IP67		
rder Information			
Ordering Code		SLP20-320P	SLP20-320S
SLP20-320x		2032015	2032016



Application / Installation Schematic





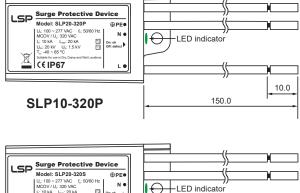
Series connection

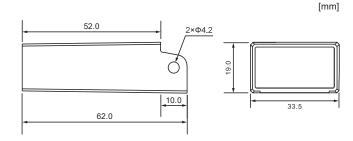
Parallel connection

Installation instructions:

- 1. SPD should be installed near the AC side of LED power driver.
- 2. Parallel: Brown-phase line (L); Blue-neutral line (N); Yellow & green-ground line (PE).
- $3. \ Series: Brown-phase \ line \ (L_i); \ Red-phase \ line \ (L_o); \ Blue-neutral \ line \ (N); \ Yellow \ \& \ green-ground \ line \ (PE)$
- 4. Fixed with one M4 screw.

Dimensions & Packaging

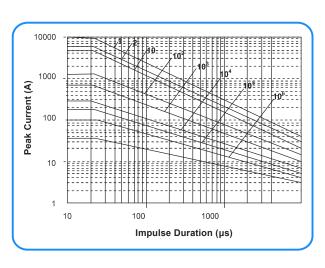




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Complete Unit		
SLP20-320x	SLP20-320P	SLP20-320S
Weight (One Piece)	62 g	70 g
Packaging Dimensions (H × W × L)	[428 × 222 × 205 mm]	
Packing Quantity	200 pcs/CTN	

Repetitive Surge Capability



Test Waveform

