

Surge Protective Device

Technical Documentation



The **ASCO Model 235** surge protector is a compact submersible device that is designed to be installed directly within a light pole to help protect the sensitive lighting ballast and power supply from damaging transients. Model 235 easily fits into the 3 in. x 5 in. hand hole located at base of the light pole and is wired in series with the load.

Model 235 contains a green status LED that will go out if the unit is not fully functional. This aids maintenance personnel in identifying if the unit needs to be replaced.

Key Specs

- **Voltage:** 120-480 VAC
- **Current:** 15 Amp
- **Connection:** 12 AWG Wire Leads on Input and Output
- **Mounting:** Flange

Features

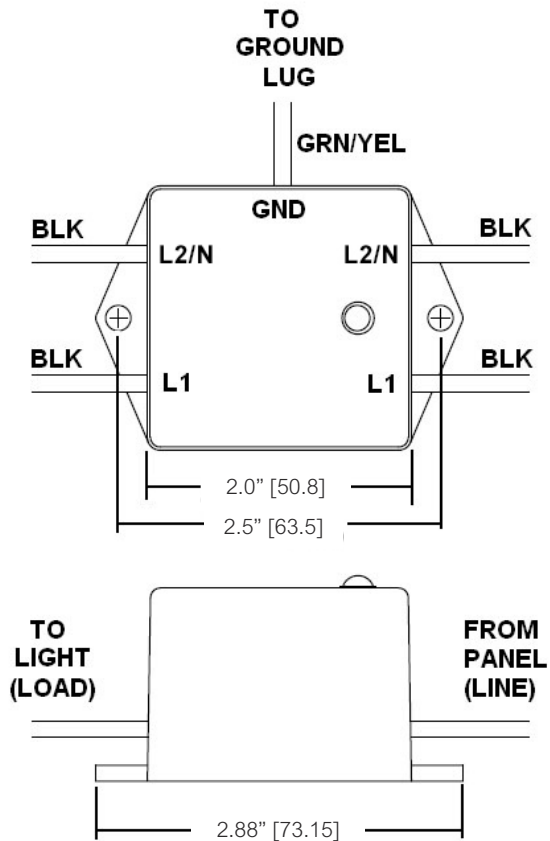
- Fully encapsulated for water resistance
- Submersion tested
- Series connected surge protection
- Metal Oxide Varistor (MOV) Technology
- All modes of protection
- 'Protected' status LED
- Compact design - fits easily in highway or parking lot light pole
- 5 year limited warranty

General Technical Specifications				
Model	120	240	277	480
Operating Voltage	120 VAC	240 VAC	277 VAC	480 VAC
Maximum Continuous Operating Voltage (MCOV)	150 VAC	320 VAC	320 VAC	550 VAC
Voltage Configuration	Single Phase, 2W + G			
Continuous Operating Current	15 A			
Operating Frequency	47-63 Hz			
Modes of Protection	L-N, L-G, N-G	L-L, L-G	L-N, L-G, N-G	L-L, L-G
Total Peak Surge Current	36 kA			
Clamping Voltage: @200A Ringwave	400V (L-N)	708V (L-L)	708V (L-N)	1,500V (L-L)
@500A Combination	394V (L-N)	684V (L-L)	684V (L-N)	1,260V (L-L)
@3kA Combination	564V (L-N)	876V (L-L)	876V (L-N)	1,780V (L-L)
@10kA Combination	1,160V (L-N)	1,400V (L-L)	1,400V (L-N)	2,560V (L-L)
Status Indication	Green LED			
Connection Type	Series Connected			
Wire Type	#12 AWG (See Wiring Chart on pg. 2)			
Operating Temperature	-40°C to +85°C			
Dimensions (in/mm)	1.5 in. H x 2.0 in. L x 2.0 in. W [38.1 x 50.8 x 50.8 mm]			
Weight (lbs/kg)	0.52 lbs [0.24 kg]			

Submersion Tested

- Seven feet submersion for 120hrs
- 50+ hours energized at 480VAC while submerged
- Test Report Available

Dimenisons



Ordering Information

MODEL <i>Former Model Name</i>	APPLICATION
235120NF015AWLN0 <i>Edco SHAS-120</i>	120VAC, Single Phase, 2W+G
235240LF015AWLN0 <i>Edco SHAS-240</i>	240VAC, Single Phase, 2W+G
235277NF015AWLN0 <i>Edco SHAS-277</i>	277VAC, Single Phase, 2W+G
235480LF015AWLN0 <i>Edco SHAS-480</i>	480VAC, Single Phase, 2W+G

