

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

| 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] | | | |

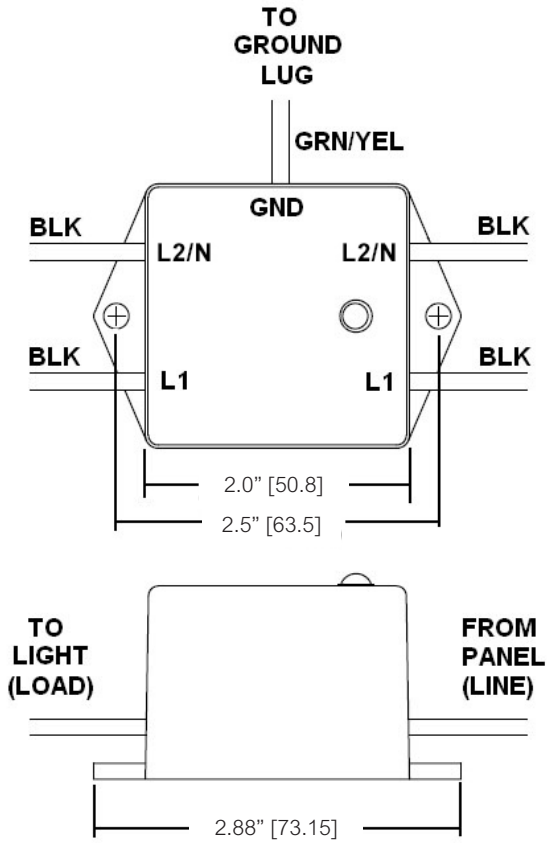
Features

- 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

Submersion Tested

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

Dimensions



Ordering Information

MODEL

Former Model Name

APPLICATION

235120NF015AWLN0

Edco SHAS-120

120VAC, Single Phase, 2W+G

235240LF015AWLN0

Edco SHAS-240

240VAC, Single Phase, 2W+G

235277NF015AWLN0

Edco SHAS-277

277VAC, Single Phase, 2W+G

235480LF015AWLN0

Edco SHAS-480

480VAC, Single Phase, 2W+G