

Surge Protective Device

Technical Documentation



The **ASCO Model 251** hybrid design exhibits performance levels unattainable with simple “shunt type” protectors. The two active clamp stages, large inductor and shunt capacitance effectively halt high rate-of-rise surge waveforms, thus preventing initial voltage overshoot.

Flexibility of installation is another design feature of Model 251. The protector first and second stages are electrically separate (line side) for use in jurisdictions that require a line filter between stages.

In addition, the first stage provides protection from MAIN NEUTRAL to GND as well as MAIN LINE to GND. This is an often overlooked feature which becomes significant in locales where NEUTRAL must be kept separate from earth ground inside the cabinet.

Key Specs

- **Voltage:** 120 VAC or 240 VAC
- **Current:** 10 Amp
- **Connection:** 1/4 - 20 Stainless Steel Lugs
- **Mounting:** Flange

**See Ordering Information for model number selection*

Features

- Multi-stage hybrid design
- Incorporates series choke
- 120 VAC and 240 VAC Single Phase
- Nanosecond Response Time
- Blocks High Energy Surges
- 5 year warranty

General Technical Specifications

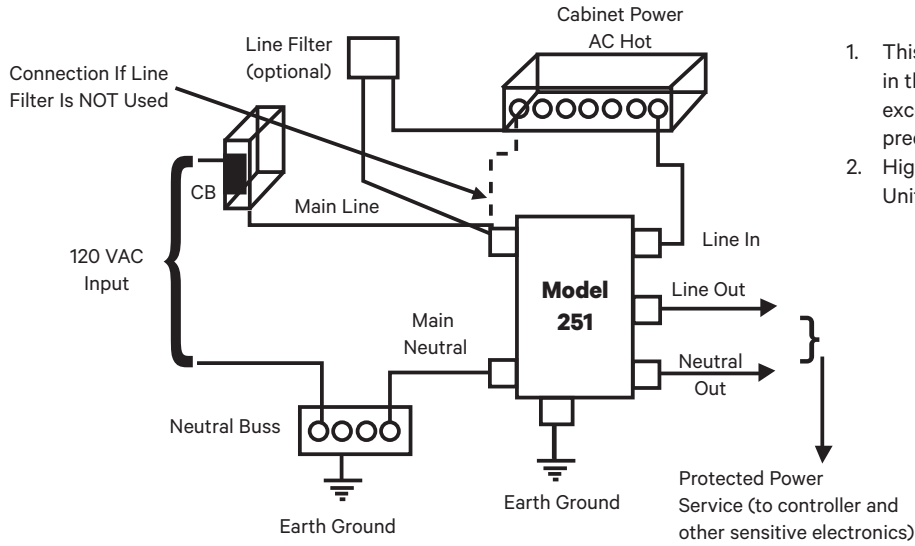
Operating Voltage	120 VAC or 240 VAC
Clamping Voltage	395 VAC or 650 VAC
Operating Current	10 A
Peak Surge Current	58.5kA (8 x 20 μ s)
Operating Frequency	47-63Hz
EMI Attenuation	70 dB typ
SPD Technology	MOVs w/L-C Filter
Modes of Protection	L-N, L-G, N-G
Status Indication	NA
Connection Type	1/4-20 & 10-32 SS Stud
Operation Temperature	-40°C to +85°C
Dimensions (in/mm)	1.8" H x 2.875" W x 5.3" L [45.7 x 73.0 x 134.6 mm]
Weight (lb/kg)	1 lb [0.45 kg]

DANGER!

Only qualified personnel should install or service this system. Electrical safety pre-cautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lock out all power sources to the unit before making electrical connections or servicing.

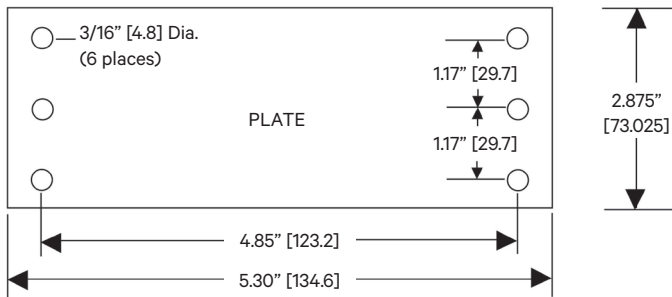
Seulement le personnel qualifié doit installer ou maintenir ce système. Des précautions de sécurité en électricité doivent être suivies lors de l'installation ou de la maintenance de cet équipement. Pour éviter tout risque de choc électrique, débranchez et verrouillez toutes les sources d'alimentation de cet équipement avant de.

Installation Instructions



1. This product could become excessively hot and rupture in the rare event of power line conditions or surge that exceed its rated operating specification. Appropriate precautions should be exercised.
2. High voltages are present on electrical termination. Unit should be serviced by qualified personnel only.

Mounting



Ordering Information

MODEL

Former Model Name

APPLICATION

251120NF010AN6NO

Edco SHP300-10

120 VAC, 10 A

251240LF010AN6NO

Edco SHP400-10

240 VAC, 10 A