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.

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**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 µs)
- **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]

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DANGER!

Only qualified personnel should install or service this system. Electrical safety precautions 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 suivis 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.
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.

### MODEL

**Former Model Name**

**APPLICATION**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>251120NF010AN6N0</td>
<td>120 VAC, 10 A</td>
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<tr>
<td>Edco SHP300-10</td>
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</tr>
<tr>
<td>251240LF010AN6N0</td>
<td>240 VAC, 10 A</td>
</tr>
<tr>
<td>Edco SHP400-10</td>
<td></td>
</tr>
</tbody>
</table>

### Installation Instructions

- **Cabinet Power** AC Hot Line Filter
- **Connection If Line Filter Is NOT Used**
  - 120 VAC Input
  - Main Line
  - Main Neutral
  - Line In
  - Neutral Out
  - Line Out
  - Neutral Buss
  - Earth Ground
  - Earth Ground
  - Protected Power Service (to controller and other sensitive electronics)

### Mounting

- **PLATE**
  - 3/16" [4.8] Dia. (6 places)
  - 1.17" [29.7]
  - 2.875" [73.025]
  - 4.85" [123.2]
  - 5.30" [134.6]