**Features:**
- UL 1449 Fourth Edition Listed
- 50kA 8 x 20µs
- All UL required OCP & Safety Coordination included inside
  - Type 1 SPDs intended for Line or Load Side of Main Disconnect
  - Type 2 SPDs intended for Load Side of Main Disconnect
- 200kA SCCR (most models)
- All UL-required OCP & Safety Coordination Included Inside
- Voltage Specific Design: Performs better than ‘one-size fits all’
- Tri-Mount Installation for more mounting flexibility:
  - Same unit mounts on Pipe Nipple, Bracket or DIN-Rail
- Visual Diagnostics: Easy to See; Easy to Understand

**Green = Go Visual Diagnostic Monitoring**
- Green LED = A-OK, Out = replace
- LED Visible from Multiple Sides & Angles - Better Viewing
- Every MOV is Monitored as opposed to ‘power is present’

**Tri-Mount Installation**
- Std. 3/4"-14 Nipple
- DIN-Rail Mount (rail not incl.)
- Bracket Mount for flat surfaces

**Options**
- N-G protection
- Dry Contact & Audible Alarm
- Dry Contact connection leads exit through nipple via #18 AWG
- Other configurations available for OEM - Call

**Physical Specifications**
- Relative Humidity Range: 0 - 95% non-condensing
- Operating Frequency: 47 - 63Hz
- Peak Operating Temperature: +85°C (185°F)
- Typical Operating Temperature: -40°C (-40°F) to +60°C (140°F)
- Response Time: < 1 nanosecond
- Solid State Bi-directional Operation
- NEMA 4X Polycarbonate Enclosure—UL746C(f1), UL 94-5VA
- Pre-wired with 3’ (1m) of #10 AWG conductor
- Typical Type 2 Connection: #10 AWG to 30A breaker
- Data table on backpage

**Performance Specifications**
- 50kA 8 x 20µs Per Mode
- UL 1449 tested Innomial: 20kA (highest available)
- UL 1449 tested SCCR: 200kA (most models)
- Large-Block, 34mm square, 50kA MOVs
- Individually Fused & Thermally Protected MOVs
- UL 1449 Voltage Protection Ratings (VPRs):
  - 600V for 120V, 120/240, 208Y/120
  - 1000V for 277V, 480Y/277V
- Repetitive Impulse: 5000 - 3kA - 8 x 20µs; 1000 - 10kA - 8 x 20µs
- Data table on backpage

**Dimensions**

- Weight: 1.60 lbs (0.73 kg)
- Sized for std 35mm Din-Rail

Special Thank You to NASA/SATOP for design assistance & validation
## Surge Current Rating

- **S** = 50 kA/Phase
- **A** = (Default)

### Voltage Systems

<table>
<thead>
<tr>
<th>Voltage</th>
<th>System</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V</td>
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**EXAMPLES:**
- **SSA120V3Y** 50kA, 120V, 3 pole (208Y/120V)
- **SSA277V3YN** 50kA, 277V, 3 pole (480V/277V) with N-G

No cost accessories: E485 Supplementary label

## Performance Data

### Model Number

- **SSA120V1P**
- **SSA120V2P**
- **SSA120V3Y**
- **SSA120V1P**
- **SSA120V3Y**
- **SSA120V1P**
- **SSA127V2P**
- **SSA120V1P**
- **SSA127V2P**

### Voltage Protection Rating

- **Rated for UL 1449 Fourth Edition**

### Leads

- **Hi-Leg Delta**
- **Split Phase**

### Voltage & System Performance Data

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## Application Guide

### System Configuration

- **INSTALL AT OR NEAR SERVICE ENTRANCE OR TRANSFORMER**
- **INSTALLLED > 10’ (3M) FROM SERVICE ENTRANCE OR TRANSFORMER**

### N-G Bonded - Does not require N-G protection

### Downstream of N-G Bond - N-G protection suggested

### Voltage

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### Ground (GRN)

- **Neutral (WHT)**
- **Hi-Leg Delta**
- **White (WHT)**
- **Black (BLK)**
- **Green (GRN)**

### Use Gray & Red Leads

### Phase A (BLK)

### Phase B (BLK)

### Phase C (BLK)

### Hot (BLK)

### Neutral (WHT)

### Transformer Entrance or Service Entrance

### Hi-Leg - Delta

### Corner Grounded Delta?

Use same models & connect one SPD black & green to ground (diagnostics will function correctly)

---

**Form C Dry Contact & Audible Alarm**

- **Form C Dry Contact:** Three (3) #18 wires exit the pipe nipple
- **Gray is Common**, **Blue is Normally Open, Red is Normally Closed**
  - Normally Open: Use Gray & Blue
  - Normally Closed: Use Gray & Red

**Audible Alarm:**

- Alarm sounds when any protection is lost (If diagnostic LED extinguishes (i.e. problem), alarm will sound)