**AVAILABLE CONFIGURATIONS**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>kA Per Phase</th>
<th>Voltage</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1451-85</td>
<td>120kA</td>
<td>440/480V</td>
<td>3-Phase, 3-Wire Ungrounded Delta</td>
</tr>
</tbody>
</table>

**Warranty**
5-years

**Available Options**
- Surge Counter: Add suffix -S
- Stainless Steel NEMA 4X enclosure: Add suffix -4X
- Dry Relay Contacts come standard on all models

---

**PRODUCT SPECIFICATIONS**

**Electrical**
- Nominal Discharge Current Rating (Iₙ): 20kA
- Operating Frequency: 50–60Hz
- Connection Methods: Parallel to load (shunt), Lugs #14–#2, Directly connect or through 60A (min) breaker
- Modes of Protection: L-G, L-L
- Fault Rating (SCCR): 100kAIC
- Response Time: Less than 1 nanosecond (one per phase)
- Standard Monitoring: LED status indicator lights (one per phase)

**Mechanical**
- Weight: 33.7 lbs. (15 kg)
- Enclosure Type: NEMA 4, 4X
- Installation Location: Indoor/Outdoor
- Mounting Method: Dual mounting flanges
- Operating Environment: -40° to +185°F (-40° to +85°C)
- Altitude: Up to 16,400 ft. (5000 m)
- Product Design: Individually fused MOVs, Overcurrent fusing

**Regulatory**
- UL 1449 3rd Edition Type: Type 1
- UL 1283: No
- IEEE C62.41.1, .2, C62.45: Yes
- Listed By: ETL

---

**FEATURES AND BENEFITS**

- Listed by ETL to UL 1449 3rd Edition for a Type 1 SPD application.
- Matrix of individually fused Metal Oxide Varistors (MOVs) housed in replaceable modules.
- Cover lights indicate status of modules.

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**SURGE PROTECTIVE DEVICES**

**Surgitron® I 1451-85**

HEAVY DUTY SERVICE ENTRANCE APPLICATIONS
MODULAR DESIGN

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**Surgitron**

I

HEAVY DUTY SERVICE ENTRANCE APPLICATIONS
MODULAR DESIGN

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**Thomas&Betts**

A Member of the ABB Group
## SURGITRON I PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Model Number</th>
<th>kA Per Phase</th>
<th>Voltage Configuration</th>
<th>Protection Modes</th>
<th>MCOV</th>
<th>UL 1449 3rd Edition</th>
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</thead>
<tbody>
<tr>
<td>1451-85</td>
<td>120kA</td>
<td>440/480V</td>
<td>L-G</td>
<td>552</td>
<td>1500V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>L-L</td>
<td>552</td>
<td>1800V</td>
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</tbody>
</table>

## DIMENSIONAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Dim</th>
<th>Inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>14.75 (374.7)</td>
</tr>
<tr>
<td>H2</td>
<td>15.5 (393.7)</td>
</tr>
<tr>
<td>W1</td>
<td>12.9 (327.7)</td>
</tr>
<tr>
<td>W2</td>
<td>10 (254)</td>
</tr>
<tr>
<td>D</td>
<td>6.2 (157.5)</td>
</tr>
</tbody>
</table>