Surgitron® I
1456-85-M
1456-85-MN

HEAVY DUTY SERVICE ENTRANCE APPLICATIONS
MODULAR DESIGN

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.

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>1456-85-M</td>
<td>240kA</td>
<td>480/277V</td>
<td>3-Phase Wye, 4-Wire + Ground</td>
</tr>
<tr>
<td>1456-85-MN</td>
<td>240kA</td>
<td>480/277V</td>
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</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

Stand Alone Option
Remote Monitor 1260-97

PRODUCT SPECIFICATIONS

Electrical
Nominal Discharge Current Rating (I-n) 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-N, L-G, N-G
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
### 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 6kV 3000A VPR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1456-85-M</td>
<td>240kA</td>
<td>480/277V</td>
<td>L-N</td>
<td>320</td>
<td>1500V</td>
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<td></td>
<td></td>
<td></td>
<td>N-G</td>
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<td>500V</td>
</tr>
</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>