Surge arrester

2-electrode arrester

Series/Type: V13-A800XN
Ordering code: B88069X4380B152
Date: 2019-07-31
Version: 11
Surge arrester  
B88069X4380B152  
2-electrode arrester  
V13-A800XN

Features
- Standard size
- Maximum current rating
- Fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications
- AC power line N-PE application
- Class I and class II– surge protection

Electrical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage</td>
<td>&gt; 600</td>
<td>V</td>
</tr>
<tr>
<td>Impulse spark-over voltage</td>
<td>&lt; 1500</td>
<td>V</td>
</tr>
<tr>
<td>Breakdown time</td>
<td>&lt; 100</td>
<td>ns</td>
</tr>
<tr>
<td>Insulation resistance at 100 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>&gt; 1</td>
<td>GΩ</td>
</tr>
<tr>
<td>Class I according to IEC 61643-11</td>
<td>U&lt;sub&gt;c&lt;/sub&gt; = 255 V</td>
<td></td>
</tr>
<tr>
<td>Nominal discharge current 8/20 µs</td>
<td>I&lt;sub&gt;n&lt;/sub&gt; = 40 kA</td>
<td></td>
</tr>
<tr>
<td>Impulse current 10/350 µs</td>
<td>I&lt;sub&gt;imp&lt;/sub&gt; = 12 kA</td>
<td></td>
</tr>
<tr>
<td>Follow current at 50/60 Hz</td>
<td>I&lt;sub&gt;f&lt;/sub&gt; = 100 A</td>
<td></td>
</tr>
<tr>
<td>Class II according to IEC 61643-11</td>
<td>U&lt;sub&gt;c&lt;/sub&gt; = 255 V</td>
<td></td>
</tr>
<tr>
<td>Nominal discharge current 8/20 µs</td>
<td>I&lt;sub&gt;n&lt;/sub&gt; = 40 kA</td>
<td></td>
</tr>
<tr>
<td>Maximum discharge current 8/20 µs</td>
<td>I&lt;sub&gt;max&lt;/sub&gt; = 60 kA</td>
<td></td>
</tr>
<tr>
<td>Follow current at 50/60 Hz</td>
<td>I&lt;sub&gt;f&lt;/sub&gt; = 100 A</td>
<td></td>
</tr>
<tr>
<td>AC discharge current (TOV&lt;sup&gt;3&lt;/sup&gt;) at 1200 V</td>
<td>300 A</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>~ 10 g</td>
<td></td>
</tr>
<tr>
<td>Operation and storage temperature</td>
<td>-40 ... +125 °C</td>
<td></td>
</tr>
<tr>
<td>Climatic category (IEC 60068-1)</td>
<td>40/125/21</td>
<td></td>
</tr>
</tbody>
</table>

Marking, black positive

EPCOS  
800 YY ON  
800 - Nominal voltage  
YY - Year of production  
O - Non radioactive  
N - Series

Certifications
- UL 1449 (E319264)

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) TOV – Temporary over voltage
4) Same values before and after loading
Dimensional drawing in mm

Ordering code and packing advice

*B88069X4380B152 = 150 pcs. on trays*
Cautions and warnings

- The follow current must be limited (see values on page 2) so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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