Surge arrester

2-electrode arrester

Series/Type: A80-A800XP
Ordering code: B88069X5691C103
Date: 2019-09-18
Version: 11
Surge arrester

2-electrode arrester

Features
- Very fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

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

Electrical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage</td>
<td>&gt; 600 V</td>
</tr>
<tr>
<td>Front of wave spark-over voltage</td>
<td>&lt; 1500 V</td>
</tr>
<tr>
<td>Breakdown time</td>
<td>&lt; 100 ns</td>
</tr>
<tr>
<td>Insulation resistance at 100 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>&gt; 1 GΩ</td>
</tr>
<tr>
<td>Class II</td>
<td></td>
</tr>
<tr>
<td>Max. continuous operating voltage at 50/60 Hz</td>
<td>U&lt;sub&gt;c&lt;/sub&gt; = 255 V</td>
</tr>
<tr>
<td>Nominal discharge current 8/20 µs</td>
<td>I&lt;sub&gt;n&lt;/sub&gt; = 10 kA</td>
</tr>
<tr>
<td>Maximum discharge current 8/20 µs</td>
<td>I&lt;sub&gt;max&lt;/sub&gt; = 20 kA</td>
</tr>
<tr>
<td>Follow current at 50/60 Hz</td>
<td>I&lt;sub&gt;f&lt;/sub&gt; = 100 A</td>
</tr>
<tr>
<td>Service life</td>
<td>3 kA</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 3 g</td>
</tr>
<tr>
<td>Operation and storage temperature</td>
<td>-40 ... +125 °C</td>
</tr>
<tr>
<td>Climatic category (IEC 60068-1)</td>
<td>40/125/21</td>
</tr>
<tr>
<td>Marking, blue positive</td>
<td>EPCOS 800 YY O</td>
</tr>
<tr>
<td>Certifications</td>
<td>UL 1449 (E319264)</td>
</tr>
</tbody>
</table>

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test sequence in accordance with IEC 61643-11.
   Follow current has to be avoided by an appropriate external circuit (e.g. varistor in series).
Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- 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.
- Do not continue to use damaged surge arresters.

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