Surge arrester

2-electrode arrester

Series/Type: V14-H14XP
Ordering code: B88069X2373B152
Date: 2019-08-01
Version: 03
Features
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications
- AC power line devices – class II

Electrical specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage</td>
<td></td>
<td>&gt; 1100</td>
<td>V</td>
</tr>
<tr>
<td>Front of wave spark-over voltage 3)</td>
<td>at 1.2/50 μs, 6 kV</td>
<td>&lt; 2500</td>
<td>V</td>
</tr>
<tr>
<td>Breakdown time</td>
<td></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></td>
<td>&gt; 1</td>
<td>GΩ</td>
</tr>
<tr>
<td>Class II 4)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. continuous operating voltage at 50/60 Hz</td>
<td>U&lt;sub&gt;c&lt;/sub&gt;</td>
<td>440</td>
<td>V</td>
</tr>
<tr>
<td>Nominal discharge current 8/20 μs</td>
<td>I&lt;sub&gt;n&lt;/sub&gt;</td>
<td>20</td>
<td>kA</td>
</tr>
<tr>
<td>Maximum discharge current 8/20 μs 5)</td>
<td>I&lt;sub&gt;max&lt;/sub&gt;</td>
<td>30</td>
<td>kA</td>
</tr>
<tr>
<td>Service life</td>
<td>3 operations</td>
<td>2.5</td>
<td>kA</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 10</td>
<td></td>
<td>g</td>
</tr>
<tr>
<td>Operation and storage temperature</td>
<td>−40 ... +125°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climatic category (IEC 60068-1)</td>
<td></td>
<td>40/125/21</td>
<td></td>
</tr>
<tr>
<td>Marking, black positive</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In darkness w/o storage
3) Arrester measured individually
4) Test sequence in accordance with IEC 61643-11.
   Follow current has to be avoided by an appropriate external circuit (e.g. varistor in series).
5) Alternatively: 2 operations 30 kA, 8/20 μs
Dimensional drawing in mm

Ordering code and packing advice
B88069X2373B152 = 150 pcs. on trays

Please read Cautions and warnings and Important notes at the end of this document.
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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