Surge arrester

2-electrode arrester

Series/Type: N81-A350X
Ordering code: B88069X4920****
Version/Date: Issue 04 / 2011-01-17
Surge arrester
2-electrode arrester

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

Applications
- Line protection
- Consumer electronics

Electrical specifications

<table>
<thead>
<tr>
<th>DC spark-over voltage</th>
<th>350 ± 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impulse spark-over voltage</td>
<td></td>
</tr>
<tr>
<td>at 100 V/µs - for 99 % of measured values</td>
<td>&lt; 700 V</td>
</tr>
<tr>
<td>- typical values of distribution</td>
<td>&lt; 650 V</td>
</tr>
<tr>
<td>at 1 kV/µs - for 99 % of measured values</td>
<td>&lt; 900 V</td>
</tr>
<tr>
<td>- typical values of distribution</td>
<td>&lt; 800 V</td>
</tr>
</tbody>
</table>

Service life
- 10 operations 50 Hz, 1 s
- 1 operation 50 Hz, 0.18 s (9 cycles)
- 10 operations 8/20 µs
- 1 operation 8/20 µs
- 1 operation 10/350 µs

<table>
<thead>
<tr>
<th>Insulation resistance at 100 V&lt;sub&gt;DC&lt;/sub&gt;</th>
<th>&gt; 10 GΩ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacitance at 1 MHz</td>
<td>&lt; 1.5 pF</td>
</tr>
<tr>
<td>Arc voltage at 1 A</td>
<td>~ 15 V</td>
</tr>
<tr>
<td>Glow to arc transition current</td>
<td>~ 0.5 A</td>
</tr>
<tr>
<td>Glow voltage</td>
<td>~ 60 V</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 1.5 g</td>
</tr>
<tr>
<td>Operation and storage temperature</td>
<td>-40 ... +90 °C</td>
</tr>
<tr>
<td>Climatic category (IEC 60068-1)</td>
<td>40/ 90/ 21</td>
</tr>
<tr>
<td>Marking, red negative</td>
<td>EPCOS 350 YY O</td>
</tr>
</tbody>
</table>

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845
Surge arrester B88069X4920****
2-electrode arrester N81-A350X

Dimensional drawing in mm

Ordering codes and packing advices
B88069X4920S102 = 100 pcs on 5 taped stripes
B88069X4920T502 = 500 pcs on tape & reel

Cautions and warnings
- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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