Surge arrester

2-electrode arrester

Series/Type: H38M-A800XP1
Ordering code: B88069X3993B201
Date: 2019-07-23
Version: 02
## Features
- Suitable for direct strikes
- Very fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

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

### Electrical specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage ¹ ²</td>
<td>&gt; 600 V</td>
</tr>
<tr>
<td>Front of wave spark-over voltage</td>
<td>&lt; 1500 V</td>
</tr>
<tr>
<td>- at 1.2/50 μs, 6 kV</td>
<td></td>
</tr>
<tr>
<td>Breakdown time</td>
<td>&lt; 100 ns</td>
</tr>
<tr>
<td>- typical values</td>
<td>&lt; 20 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 I according to IEC 61643-11</td>
<td></td>
</tr>
<tr>
<td>Max. continuous operating voltage at 50/60 Hz</td>
<td>255 V</td>
</tr>
<tr>
<td>- Nominal discharge current 8/20 μs</td>
<td>100 kA</td>
</tr>
<tr>
<td>- Impulse current 10/350 μs</td>
<td>100 kA</td>
</tr>
<tr>
<td>- Follow current at 50/60 Hz at 255 V</td>
<td>100 A</td>
</tr>
<tr>
<td>AC discharge current (TOV ³) at 1200 V</td>
<td>300 A</td>
</tr>
<tr>
<td>- 1 operation 50 Hz, 0.2 s</td>
<td></td>
</tr>
<tr>
<td>DC discharge current</td>
<td>400 A</td>
</tr>
<tr>
<td>- 1 operation 0.5 s</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>~ 85 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>
</tbody>
</table>

### Marking, blue positive

**EPCOS 800 YY O**

800 - Nominal voltage
YY - Year of production
O - Non radioactive

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¹ At delivery AQL 0.65 level II, DIN ISO 2859
² In ionized mode
³ TOV – Temporary over voltage

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PPD AB PD / PPD AB PM

Version: 02 / 2019-07-23
Dimensional drawing in mm

Ordering code and packing advice

B88069X3993B201 = 20 pcs. in 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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