Surge arrester

2-electrode arrester

<table>
<thead>
<tr>
<th>Series/Type:</th>
<th>A81-H11XPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering code:</td>
<td>B88069X8551****</td>
</tr>
<tr>
<td>Date:</td>
<td>2019-08-21</td>
</tr>
<tr>
<td>Version:</td>
<td>03</td>
</tr>
</tbody>
</table>
Features
- Very fast response time
- 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>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage</td>
<td>1100 ±30 V</td>
</tr>
<tr>
<td>Front of wave spark-over voltage</td>
<td>&lt; 2200 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>510 V</td>
</tr>
<tr>
<td>Nominal discharge current 8/20 μs</td>
<td>10 kA</td>
</tr>
<tr>
<td>Maximum discharge current 8/20 μs</td>
<td>20 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>
</tbody>
</table>

Marking, blue positive

EPCOS 1100 YY O
- Nominal voltage
- Year of production
- Non radioactive

Certifications

UL 1449 (E319264)

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In darkness without storage
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).
**Surge arrester**

**2-electrode arrester**

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**Dimensional drawing in mm**

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**Ordering codes and packing advices**

- **B88069X8551S102** = 100 pcs. on 5 taped stripes
- **B88069X8551T502** = 500 pcs. on tape & reel

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

Wave soldering

Wave profile features | Pb-free assembly
--- | ---
Solder | Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature | 263 (±3) °C
Dwell time | < 3 s

Soldering profile applied to a single soldering process.

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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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