Surge arrester

2-electrode arrester

Series/Type: EM3600X6S
Ordering code: B88069X9481B502
Date: 2018-08-24
Version: 05
**Features**
- Very small size
- Fast response time
- Stable performance over service life
- Extremely low capacitance
- High insulation resistance
- RoHS-compatible

**Applications**
- AC power line devices
- Consumer electronics
- Power supply

**Electrical specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>DC spark-over voltage</th>
<th>Impulse spark-over voltage</th>
<th>Service life</th>
<th>Insulation resistance at 100 V&lt;sub&gt;DC&lt;/sub&gt;</th>
<th>Capacitance at 1 MHz</th>
<th>Arc voltage at 1 A</th>
<th>Glow to arc transition current</th>
<th>Glow voltage at 0.1 A</th>
<th>AC withstand voltage</th>
<th>Weight</th>
<th>Operation temperature</th>
<th>Recommended storage</th>
<th>Climatic category (IEC 60068-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance</td>
<td>3600 ±20</td>
<td>&lt; 4350</td>
<td>10 operations</td>
<td>&gt; 1 GΩ</td>
<td>&lt; 1 pF</td>
<td>~ 35</td>
<td>&lt; 0.3</td>
<td>~ 170</td>
<td>1500 V</td>
<td>~ 1 g</td>
<td>−40 ... +125°C</td>
<td>− temperature +5 ... +35°C</td>
<td>40/125/21</td>
</tr>
<tr>
<td>Min.</td>
<td>2880</td>
<td>&lt; 4150</td>
<td>300 operations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1800 V</td>
<td></td>
<td></td>
<td>− humidity +45 ... 80%</td>
<td></td>
</tr>
<tr>
<td>Max.</td>
<td>4320</td>
<td>&lt; 4500</td>
<td>10 operations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>− period ≤ 2 years</td>
<td></td>
</tr>
</tbody>
</table>

- For 99% of measured values
- Typical values of distribution

**Continued on next page**
Surge arrester

Marking, red positive

EPCOS EM 3600 YY O
EM - Series
3600 - Nominal voltage
YY - Year of production
O - Non radioactive

Certifications
UL 1449 (E319264)

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test conditions in acc. with MIL-STD-202G at 25 ±5 °C, relative humidity of ≤ 55 % and atmospheric pressure 860 ... 1100mbar.

Terms and current waveforms in accordance with: ITU-T Rec. K.12; IEC 61643-21; 61643-311.

Dimensional drawing in mm

Ordering code and packing advice
B88069X9481B502 = 500 pcs. on trays
Soldering parameter

Wave soldering

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.
- Electromagnetic fields and ionizing radiation may affect the electrical characteristics of the arrester. The impact of such effects (inductive and capacitive field distortion from adjacent components) must be avoided by appropriate circuit design measures.
- 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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