Surge arrester

2-electrode arrester

Series/Type: A71-H10X
Ordering code: B88069X3820****
Date: 2019-08-19
Version: 08

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Surge arrester
B88069X3820****
2-electrode arrester
A71-H10X

Features
- Standard size
- Fast response time
- Stable performance over life
- Low capacitance
- High insulation resistance
- RoHS-compatible

Applications
- Power supply
- Consumer electronics
- Air-con

Electrical specifications

<table>
<thead>
<tr>
<th>DC spark-over voltage</th>
<th>1000</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance</td>
<td>±15</td>
<td>%</td>
</tr>
<tr>
<td>Min.</td>
<td>850</td>
<td>V</td>
</tr>
<tr>
<td>Max.</td>
<td>1150</td>
<td>V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Impulse spark-over voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>at 100 V/µs - for 99% of measured values</td>
</tr>
<tr>
<td>at 1 kV/µs - for 99% of measured values</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Service life</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 operations</td>
</tr>
<tr>
<td>1 operation</td>
</tr>
<tr>
<td>10 operations</td>
</tr>
<tr>
<td>1 operation</td>
</tr>
</tbody>
</table>

Insulation resistance at 100 V<sub>DC</sub>
> 10 GΩ

Capacitance at 1 MHz
< 1 pF

Arc voltage at 1 A
~ 20 V
< 1 A
~ 180 V

Weight
~ 2 g

Operation and storage temperature
−40 ... +125 °C

Climatic category (IEC 60068-1)
40/125/21

Marking, green positive
EPCOS 1000 YY O
1000 - 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
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.
Dimensional drawing in mm

Ordering codes and packing advices

B88069X3820S102 = 100 pcs. on 5 taped stripes
B88069X3820T502 = 500 pcs. on tape & reel

Important notes at the end of this document.
Soldering parameter

Wave soldering

![Soldering profile diagram](image)

<table>
<thead>
<tr>
<th>Wave profile features</th>
<th>Pb-free assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solder</td>
<td>Sn 95.5 / Ag 3.8 / Cu 0.7</td>
</tr>
<tr>
<td>Solder bath temperature</td>
<td>263 (±3) °C</td>
</tr>
<tr>
<td>Dwell time</td>
<td>&lt; 3 s</td>
</tr>
</tbody>
</table>

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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