Surge arrester

2-electrode arrester

Series/Type: EF1500XN
Ordering code: B88069X2163C103
Date: 2019-07-15
Version: 03
Surge arrester
B88069X2163C103
2-electrode arrester
EF1500XN

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

Applications
- Application with high follow current
- Power supply
- Consumer electronics
- AC power line devices

Electrical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>DC spark-over voltage (V)</th>
<th>Impulse spark-over voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance</td>
<td>±20</td>
<td>&lt; 1800</td>
</tr>
<tr>
<td>Min.</td>
<td>1200</td>
<td>&lt; 1700</td>
</tr>
<tr>
<td>Max.</td>
<td>1800</td>
<td>&lt; 2000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specification</th>
<th>Service life (A)</th>
<th>Max. follow current during one voltage half cycle at 50 Hz (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 operations</td>
<td>5</td>
<td>200</td>
</tr>
<tr>
<td>1 operation</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>10 operations</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>1 operation</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specification</th>
<th>Capacitance (pF)</th>
<th>Arc voltage at 1 A (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt; 1.5</td>
<td>~ 30</td>
</tr>
<tr>
<td>Glow to arc transition current</td>
<td></td>
<td>&lt; 0.3</td>
</tr>
<tr>
<td>Glow voltage</td>
<td></td>
<td>~ 90</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specification</th>
<th>Weight (g)</th>
<th>Operation and storage temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>~ 1.5</td>
<td>–40 ... +125</td>
</tr>
</tbody>
</table>

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

Marking, red positive
EPCOS EF 1500 YY O
EF  - Series
1500  - Nominal voltage
YY  - Year of production
O  - Non radioactive

Certification
UL 1449 (E319264)

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Follow current has to be limited by an appropriate varistor in series.

Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.
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Dimensional drawing in mm

Ordering codes and packing advices

B88069X2163C103 = 1000 pcs. on container
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.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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