Surge arrester

2-electrode arrester

<table>
<thead>
<tr>
<th>Series/Type:</th>
<th>G31-A75X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering code:</td>
<td>B88069X8091B502</td>
</tr>
<tr>
<td>Date:</td>
<td>2019-11-04</td>
</tr>
<tr>
<td>Version:</td>
<td>07</td>
</tr>
</tbody>
</table>
**Surge arrester**

**B88069X8091B502**

**2-electrode arrester**

**G31-A75X**

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

### Applications
- ESD protection
- Applications with limited space

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#### Electrical specifications

<table>
<thead>
<tr>
<th></th>
<th>DC spark-over voltage</th>
<th>Impulse spark-over voltage</th>
<th>Service life</th>
<th>Insulation resistance at 50 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</th>
<th>Weight</th>
<th>Operation and storage temperature</th>
<th>Climatic category (IEC 60068-1)</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>75 V ±20% 60 V 90 V</td>
<td>350 V 300 V 650 V 600 V</td>
<td>300 operations</td>
<td>&gt; 1 GΩ</td>
<td>&lt; 0.5 pF</td>
<td>~ 10 V</td>
<td>&lt; 1 A</td>
<td>~ 60 V</td>
<td>~ 0.2 g</td>
<td>−40 ... +125 °C</td>
<td>40/125/21</td>
<td>without</td>
</tr>
<tr>
<td></td>
<td>100 A 1 kA 2 kA 500 A</td>
<td></td>
<td>10 operations [5× (+) &amp; 5× (−)]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8/20 µs 200 operations</td>
<td></td>
<td>1 operation</td>
<td>8/20 µs contact discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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**Version: 07 / 2019-11-04**

**PPD AB PD / PPD AB PM**

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

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1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Tests according to ITU-T Rec. K.12 and UL 497B
4) Contact discharge parameters: 1500 pF, 10 kV, 20 Ω

Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.
Surge arrester
B88069X8091B502
2-electrode arrester
G31-A75X

Dimensional drawing in mm

Ordering codes and packing advices
B88069X8091B502 = 500 pcs. on trays (50 pcs. per tray)
Soldering parameter

Wave soldering

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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