Surge arrester

3-electrode arrester

Series/Type: T31-A230X
Ordering code: B88069X3130xxxx
Version/Date: Issue 05 / 2007-03-29
Features | Applications
---|---
- Very small size | - Line protection
- Extremely fast response time | - Station protection
- High current rating | - Base stations
- Stable performance over life | 
- Extremely low capacitance | 
- High insulation resistance | 
- RoHS-compatible | 

### Features

#### Applications

**Electrical specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage</td>
<td>230 ± 20 V %</td>
</tr>
<tr>
<td>Impulse spark-over voltage</td>
<td>&lt; 400 V</td>
</tr>
<tr>
<td>- at 100 V/µs</td>
<td>&lt; 350 V</td>
</tr>
<tr>
<td>- at 1 kV/µs</td>
<td>&lt; 420 V</td>
</tr>
<tr>
<td>Service life</td>
<td></td>
</tr>
<tr>
<td>- 10 operations</td>
<td>10 A</td>
</tr>
<tr>
<td>- 1 operation</td>
<td>30 A</td>
</tr>
<tr>
<td>- 10 operations [5x (+) &amp; 5x (-)]</td>
<td>10 kA</td>
</tr>
<tr>
<td>- 1 operation</td>
<td>12 kA</td>
</tr>
<tr>
<td>- 2 operations [1x (+) &amp; 1x (-)]</td>
<td>2 kA</td>
</tr>
<tr>
<td>- Insulation resistance at 100 V&lt;sub&gt;dc&lt;/sub&gt;</td>
<td>&gt; 10 GΩ</td>
</tr>
<tr>
<td>Capacitance at 1 MHz</td>
<td>&lt; 1.5 pF</td>
</tr>
<tr>
<td>Transverse delay time</td>
<td>&lt; 0.2 µs</td>
</tr>
<tr>
<td>Arc voltage at 1 A</td>
<td>~ 30 V</td>
</tr>
<tr>
<td>Glow to arc transition current</td>
<td>~ 1 A</td>
</tr>
<tr>
<td>Glow voltage</td>
<td>~ 200 V</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 1.4 g</td>
</tr>
<tr>
<td>Operation and storage temperature</td>
<td>-40 ... +90 °C</td>
</tr>
<tr>
<td>Climatic category (IEC 60068-1)</td>
<td>40/ 90/ 21</td>
</tr>
</tbody>
</table>

Marking, blue negative

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Please read Cautions and warnings and Important notes at the end of this document.
Surge arrester B88069X3130xxxx a)

3-electrode arrester T31-A230X

a) xxxx = B102 (100 pcs. on tray)
          = B252 (250 pcs. on tray)

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test according to ITU-T Rec. K.12
4) Tip or ring electrode to center electrode
5) Total current through center electrode, half value through
   tip respectively ring electrode.

Terms and current waveforms in accordance with
ITU-T Rec. K.12; IEC 61643-21 and DIN 57845/VDE0845

Dimensional drawing

Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head
  contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.
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Release 2018-10