Surge arrester

2-electrode arrester

Series/Type: V13M-H40XPD
Ordering code: B88069X3313B251
Version/Date: Issue 01 / 2014-04-30
# Surge arrester

**B88069X3313B251**

## 2-electrode arrester

**V13M-H40XPD**

### Features
- Stable performance over life
- High insulation resistance
- RoHS-compatible

### Applications
- AC power line devices
- Class II requirements

### Electrical specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage $^{1,2}$</td>
<td>&gt; 3200 V</td>
</tr>
<tr>
<td>Front of wave spark-over voltage - at 1.2/50 µs, 6 kV</td>
<td>&lt; 5500 V</td>
</tr>
<tr>
<td>Breakdown time - typical values</td>
<td>&lt; 100 ns, &lt; 20 ns</td>
</tr>
<tr>
<td>Insulation resistance at 100 V$_{DC}$</td>
<td>&gt; 1 GΩ</td>
</tr>
<tr>
<td>Max. continuous operating voltage at 50/60 Hz $U_c$</td>
<td>440 V</td>
</tr>
<tr>
<td>Nominal discharge current 8/20 µs $I_n$</td>
<td>15 kA</td>
</tr>
<tr>
<td>Impulse current 10/350 µs $I_{imp}$</td>
<td>30 kA</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 10 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>
<tr>
<td>Marking, black positive</td>
<td><strong>EPCOS</strong> 4000 YY</td>
</tr>
</tbody>
</table>

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test sequence in accordance with EN 61643-11.
   Application only in devices. Follow current has to be limited by an appropriate varistor in series.
Dimensional drawing in mm

Ordering code and packing advice

*B88069X3313B251 = 25 pcs. in foam trays*
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).
- If the contacts of the surge arresters are defective, current stress can lead to the formation of sparks and loud noises.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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