Surge arrester

2-electrode arrester

Series/Type: V87-A150XSPD
Ordering code: B88069X1483B251
Version/Date: Issue 01 / 2011-12-06
Features

- Standard size
- Maximum current rating
- Fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications

- AC power line devices - class I
- DC power supply protection

Electrical specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage</td>
<td>&gt; 120 V</td>
</tr>
<tr>
<td>Front of wave spark-over voltage</td>
<td>&lt; 900 V</td>
</tr>
<tr>
<td>Breakdown time</td>
<td>&lt; 100 ns</td>
</tr>
<tr>
<td>Insulation resistance at 50 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>&lt; 1 GΩ</td>
</tr>
</tbody>
</table>

Requirements

1. Class I according to EN 61643-11
   - Max. continuous operating voltage at 50/60 Hz: V<sub>c</sub> = 70 V<sub>RMS</sub>
   - Nominal discharge current 8/20 µs: I<sub>n</sub> = 20 kA
   - Maximum discharge current 10/350 µs: I<sub>imp</sub> = 12.5 kA

2. Service life
   - 5 operations: 10/350 µs, 4 kA
   - 10 operations: 8/20 µs, 20 kA

Weight: ~ 10 g

Operation and storage temperature: -40 ... +90 °C

Climatic category (IEC 60068-1): 40/ 90/ 21

Marking, red positive

TPR 150 YY O

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

Terms in accordance with IEC 61643-11
Surge arrester B88069X1483B251
2-electrode arrester V87-A150XSPD

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.
- Damaged surge arresters must not be re-used.

Dimensional drawing in mm

Ordering code and packing advice

B88069X...B251 = 25 pcs on foam tray

PPD AB PD / PPD AB PM
Issue 01 / 2011-12-06

Please read Cautions and warnings and Important notes at the end of this document.
The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that **such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.

2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.

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