Surge arrester

3-electrode arrester

Series/Type: T23-A350X
Ordering code: B88069X7200B502
Date: 2016-04-26
Version: 07
Features
- Standard size
- Fast response time
- Very high current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications
- Line protection
- Station protection
- Base stations

Electrical specifications

<table>
<thead>
<tr>
<th>DC spark-over voltage</th>
<th>Tolerance</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 V %</td>
<td>20 %</td>
<td>280</td>
<td>420</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Impulse spark-over voltage</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>at 100 V/µs</td>
<td>&lt;650</td>
<td>V</td>
</tr>
<tr>
<td>99% of measured values</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>typical values of distribution</td>
<td>550</td>
<td>V</td>
</tr>
<tr>
<td>at 1 kV/µs</td>
<td>&lt;700</td>
<td>V</td>
</tr>
<tr>
<td>99% of measured values</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>typical values of distribution</td>
<td>600</td>
<td>V</td>
</tr>
</tbody>
</table>

Service life
- 10 operations 50 Hz; 1 s
- 1 operation 50 Hz; 0.18 s (9 cycl.)
- 10 operations 8/20 µs
- 1 operation 8/20 µs
- 5 operations 10/250 µs
- 1 operation 10/350 µs
- 300 operations 5/320 µs

Insulation resistance at 100 V DC
>10 GΩ

Capacitance at 1 MHz
<1.5 pF

Transverse delay time
<0.2 µs

Arc voltage at 1 A
~35 V

Glow to arc transition current
<1 A

Glow voltage
~200 V

Operation and storage temperature
-40 ... +125 °C

Marking, blue negative

EPCOS
350 YY O
350 - Nominal voltage
YY - Year of production
O - Non radioactive
Surge arrester B88069X7200B502
3-electrode arrester T23-A350X

Certifications
UL 497B (E163070)

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Tip or ring electrode to center electrode
4) Total current through center electrode, half value through tip respectively ring electrode.
5) Test generator 4 kV, 10/700 µs, 40 Ω
6) Test according to ITU-T Rec. K.12

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm

Ordering code and packing advice

B88069X7200B502 = 500 pcs. on trays

PPD AB PD / PPD AB PM
2016-04-26

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

Wave soldering

Wave profile features
<table>
<thead>
<tr>
<th>Pb-free assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solder</td>
</tr>
<tr>
<td>Solder bath temperature</td>
</tr>
<tr>
<td>Dwell time</td>
</tr>
</tbody>
</table>

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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- 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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