Surge arrester

3-electrode arrester

Series/Type: T23-A350X
Ordering code: B88069X7200B502
Date: 2016-04-26
Version: 07
**Surge arrester B88069X7200B502**  
**3-electrode arrester T23-A350X**

### 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></th>
<th>DC spark-over voltage 1) 2) 3)</th>
<th>Impulse spark-over voltage 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance</td>
<td>Min. 280 V</td>
<td>- for 99% of measured values</td>
</tr>
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<td></td>
<td>Max. 420 V</td>
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| Service life         | 10 operations 50 Hz; 1 s 4)    | 1 operation 50 Hz; 0.18 s (9 cycl.) 4) |
|                      | 10 operations 8/20 µs 4)       | 1 operation 8/20 µs 4)               |
|                      | 5 operations 10/250 µs 4)      | 5 operations 10/350 µs 4)            |
|                      | 300 operations 5/320 µs 4) 4) | 200 operations 5/320 µs 4) 4)       |
|                      | 10 A                           | 50 A                               |
|                      | 20 kA                          | 25 kA                              |
|                      | 5 kA                           | 5 kA                               |
|                      | 200 A                          |                                    |

| Insulation resistance at 100 V DC 3) | > 10 GΩ |
| Capacitance at 1 MHz 3)             | < 1.5 pF |
| Transverse delay time 6)            | < 0.2 µs |
| Arc voltage at 1 A                  | ~ 35 V |
| Glow to arc transition current      | < 1 A |
| Glow voltage                        | ~ 200 V |
| Weight                              | ~ 2.2 g |
| Operation and storage temperature   | ~40 °C |
| Climatic category (IEC 60068-1)     | 40/125/21 |

**Marking, blue negative**

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**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
Soldering parameter

Wave soldering

Wave profile features
- Pb-free assembly
  - Solder: Sn 95.5 / Ag 3.8 / Cu 0.7
  - Solder bath temperature: 263 (±3) °C
  - Dwell time: < 3 s

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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