Surge arrester

3-electrode arrester

Series/Type: T20-A260X
Ordering code: B88069X7110C203
Date: 2016-02-16
Version: 02
### Surge arrester

**B88069X7110C203**

**3-electrode arrester**

**T20-A260X**

#### Features
- Standard size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Reliable failsafe device
- RoHS-compatible

#### Applications
- Branch exchange (MDF)
- Line protection
- Station protection

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#### Electrical specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage</td>
<td></td>
<td>260 V</td>
</tr>
<tr>
<td>Tolerance at 100 V/s</td>
<td></td>
<td>210 … 330 V</td>
</tr>
<tr>
<td>Tolerance at 100 kV/s</td>
<td></td>
<td>210 … 350 V</td>
</tr>
<tr>
<td>Impulse spark-over voltage ³)</td>
<td></td>
<td>220 … 650 V</td>
</tr>
<tr>
<td>at 1 kV/µs - for 99% of measured values</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service life ⁸)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 operations 50 Hz; 1 s ⁵)</td>
<td></td>
<td>1 A</td>
</tr>
<tr>
<td>20 operations 50 Hz; 1 s ⁵)⁶)</td>
<td></td>
<td>5 A</td>
</tr>
<tr>
<td>20 operations 50 Hz; 1 s ⁵)⁶)</td>
<td></td>
<td>10 A</td>
</tr>
<tr>
<td>10 operations [5× (+) &amp; 5×(−)] 8/20 µs ⁵)</td>
<td></td>
<td>5 kA</td>
</tr>
<tr>
<td>10 operations [5× (+) &amp; 5×(−)] 8/20 µs ⁴)</td>
<td></td>
<td>10 kA</td>
</tr>
<tr>
<td>300 operations, alternating polarity 10/1000 µs ⁵)</td>
<td></td>
<td>100 A</td>
</tr>
<tr>
<td>300 operations, alternating polarity 10/1000 µs ⁴)</td>
<td></td>
<td>200 A</td>
</tr>
<tr>
<td>DC holdover voltage ⁸)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>at 80 V&lt;sub&gt;DC&lt;/sub&gt; / 600 Ω</td>
<td></td>
<td>&lt; 150 ms</td>
</tr>
<tr>
<td>at 120 V&lt;sub&gt;DC&lt;/sub&gt; / 600 Ω</td>
<td></td>
<td>&lt; 150 ms</td>
</tr>
<tr>
<td>Insulation resistance at 100 V&lt;sub&gt;DC&lt;/sub&gt; ³)</td>
<td></td>
<td>&gt; 10 GΩ</td>
</tr>
<tr>
<td>Capacitance at 1 MHz ³)</td>
<td></td>
<td>&lt; 1.5 pF</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td>~ 2.0 g</td>
</tr>
<tr>
<td>Operation and storage temperature</td>
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<td>−40 … +90 °C</td>
</tr>
<tr>
<td>Climatic category (IEC 60068-1)</td>
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<td>40/090/21</td>
</tr>
</tbody>
</table>

#### Certifications

EPCOS
260 YY M O
260 - Nominal voltage
YY - Year of production
M - Month of production
(1 … 9 = Jan … Sep
O … D = Oct … Dec)
O - Non radioactive

UL 497B (E163070)

Remarks on next page

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PPD AB PD / PPD AB PM

2016-02-16

Please read Cautions and warnings and Important notes at the end of this document.
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) Total current through center electrode, same value through tip respectively ring electrode
6) Test program: 10 times (1 s current, 2 s break, 1 s current) 3 min break
7) Test program: 50 times (1 s current, 2 s break, 1 s current) 3 min break
8) Test in accordance with France Telecom ST/FT R&D/8288 Surge Protective Devices (Sept. 2003)

**Dimensional drawing in mm**

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10 ±0.3
1.5 ±0.1
4.25 ±0.15

Ø7.2 ±0.2
Ø8.0 ±0.1
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nickel-plated

**Ordering code and packing advice**

*B88069X7110C203 = 2000 pcs. in container (2 PE-bags à 1000 pcs.)*
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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Release 2018-10