Surge arrester

2-electrode arrester

Series/Type: D20-A800XP
Ordering code: B88069X7691B301
Date: 2019-06-05
Version: 05
## Features
- Stable performance over life
- High insulation resistance
- RoHS-compatible

## Applications
- AC power line devices – class I and class II

## Electrical specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Class I ³)</th>
<th>Class II ³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage ¹) ²)</td>
<td>&gt; 600 V</td>
<td></td>
</tr>
<tr>
<td>Front of wave spark-over voltage</td>
<td>&lt; 1500 V</td>
<td></td>
</tr>
<tr>
<td>- at 1.2/50 µs, 6 kV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breakdown time</td>
<td>&lt; 100 ns</td>
<td>&lt; 40 ns</td>
</tr>
<tr>
<td>- typical values</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation resistance at 100 V&lt;sub&gt;DC&lt;/sub&gt;</td>
<td>&gt; 1 GΩ</td>
<td></td>
</tr>
</tbody>
</table>

### Class I ³)
- Max. continuous operating voltage at 50/60 Hz \( U_c \) = 264 V
- Nominal discharge current 8/20 µs \( I_n \) = 30 kA
- Impulse discharge current 10/350 µs \( I_{imp} \) = 25 kA
- Follow current at 50/60 Hz \( I_f \) = 100 A

### Class II ³)
- Max. continuous operating voltage at 50/60 Hz \( U_c \) = 264 V
- Nominal discharge current 8/20 µs \( I_n \) = 30 kA
- Maximum discharge current 8/20 µs \( I_{max} \) = 40 kA
- Follow current at 50/60 Hz \( I_f \) = 100 A

<table>
<thead>
<tr>
<th>AC discharge current (TOV ⁴) at 1200 V)</th>
<th>300 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 operation 50 Hz, 0.2 s</td>
<td></td>
</tr>
</tbody>
</table>

| Weight                                                                   | ~ 10 g     |

<table>
<thead>
<tr>
<th>Operation and storage temperature</th>
<th>−40 ... +125 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climatic category (IEC 60068-1)</td>
<td>40/125/21</td>
</tr>
</tbody>
</table>

| Marking                                                                  | without      |

| Certifications                                                          | UL 1449 (E319264) |

¹) At delivery AQL 0.65 level II, DIN ISO 2859
²) In ionized mode
³) Test sequence in accordance with IEC 61643-11.
⁴) TOV - Temporary over voltage
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.
- 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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Do not continue to use damaged surge arresters.

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