Surge arrester

2-electrode arrester

Series/Type: KX61-A200X
Ordering code: B88069X5481B502
Date: 2019-08-22
Version: 08
Surge arrester

B88069X5481B502

2-electrode arrester

KX61-A200X

Features

- Very small size
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- HF-applications
- Line protection
- Station protection

Features

Applications

Electrical specifications

DC spark-over voltage 1) 2)

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>±25</td>
<td>150</td>
<td>250</td>
</tr>
</tbody>
</table>

Impulse spark-over voltage

<table>
<thead>
<tr>
<th>Voltage</th>
<th>100 V/µs</th>
<th>1 kV/µs</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/20 µs</td>
<td>&lt; 450</td>
<td>&lt; 400</td>
</tr>
<tr>
<td>10/1000 µs</td>
<td>&lt; 650</td>
<td>&lt; 550</td>
</tr>
</tbody>
</table>

Service life 3)

<table>
<thead>
<tr>
<th>Operations</th>
<th>8/20 µs</th>
<th>1 operation</th>
<th>8/20 µs</th>
<th>300 operations (alternating polarity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>5</td>
<td>10</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Insulation resistance at 100 V DC

| > 10 GΩ |

Capacitance at 24 KHz

| 1.04 ... 1.19 pF |

Arc voltage at 1 A

| ~ 10 V |

Glow to arc transition current

| < 0.5 A |

Glow voltage

| ~ 60 V |

Weight

| ~ 1.5 g |

Operation and storage temperature

| −40 ... +125 °C |

Climatic category (IEC 60068-1)

| 40/125/21 |

Marking

without

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) After service life:
- DC spark-over voltage: 150 ... 300 V
- Impulse spark-over voltage: at 100 V/µs < 800 V
- at 1 kV/µs < 900 V
- Insulation resistance at 100 V DC > 0.1 GΩ

Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.
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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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