Surge arrester

2-electrode arrester

Series/Type: V10-H08X
Ordering code: B88069X9170B152
Date: 2019-07-31
Version: 06
Surge arrester

B88069X9170B152

2-electrode arrester

V10-H08X

Features
- Standard size
- Maximum current rating
- Fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications
- Industry

Electrical specifications

<table>
<thead>
<tr>
<th>DC spark-over voltage ¹ ²</th>
<th>800</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance</td>
<td>±20</td>
<td>%</td>
</tr>
<tr>
<td>Min.</td>
<td>640</td>
<td>V</td>
</tr>
<tr>
<td>Max.</td>
<td>960</td>
<td>V</td>
</tr>
<tr>
<td>Impulse spark-over voltage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>at 100 V/µs</td>
<td>&lt; 1000</td>
<td>V</td>
</tr>
<tr>
<td>- for 99% of measured values</td>
<td>&lt; 900</td>
<td>V</td>
</tr>
<tr>
<td>- typical values of distribution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>at 1 kV/µs</td>
<td>&lt; 1200</td>
<td>V</td>
</tr>
<tr>
<td>- for 99% of measured values</td>
<td>&lt; 1100</td>
<td>V</td>
</tr>
<tr>
<td>- typical values of distribution</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Service life

| 10 operations 50 Hz, 1 s      | 20 | A |
| 1 operation 50 Hz, 0.18 s (9 cycles) | 120 | A |

| 10 operations 8/20 µs         | 20 | kA |
| 1 operation 8/20 µs           | 30 | kA |
| 1 operation 10/350 µs         | 5  | kA |

Insulation resistance at 100 V<sub>DC</sub> > 1 GΩ

Capacitance at 1 MHz < 1.5 pF

Arc voltage at 1 A ~ 35 V
Glow to arc transition current < 1 A
Glow voltage ~ 200 V

Weight ~ 8 g

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

Climatic category (IEC 60068-1) 40/125/21

Marking, black positive

EPCOS 800 YY O

800 - Nominal voltage
YY - Year of production
O - Non radioactive

¹ At delivery AQL 0.65 level II, DIN ISO 2859
² In ionized mode

Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.
Dimensional drawing in mm

Ordering code and packing advice

*B88069X9170B152 = 150 pcs. on trays*
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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