Surge arrester

2-electrode arrester

Series/Type: EC350XN  
Ordering code: B88069X0940C103  
Date: 2019-07-10  
Version: 05

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Features
- Standard size
- Very fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications
- Branch exchange
- Line protection
- Subscriber protection
- Alarm system
- Tuner
- Antenna protection

Electrical specifications

<table>
<thead>
<tr>
<th>DC spark-over voltage ¹ ²</th>
<th>350</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>298</td>
<td>V</td>
</tr>
<tr>
<td>Max.</td>
<td>402</td>
<td>V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Impulse spark-over voltage</th>
<th>800</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>at 100 V/µs</td>
<td>&lt;700</td>
<td>V</td>
</tr>
<tr>
<td>at 1 kV/µs</td>
<td>&lt;900</td>
<td>V</td>
</tr>
<tr>
<td>- for 99% of measured values</td>
<td>&lt;800</td>
<td>V</td>
</tr>
<tr>
<td>- typical values of distribution</td>
<td>&lt;800</td>
<td>V</td>
</tr>
</tbody>
</table>

Service life
- 10 operations 50 Hz, 1 s
  - 5 A
- 1 operation 50 Hz, 0.18 s (9 cycles)
  - 20 kA
- 10 operations 8/20 µs
  - 5 A
- 1 operation 8/20 µs
  - 10 kA

Insulation resistance at 100 V<sub>DC</sub>
- >10 GΩ

Capacitance at 1 MHz
- <1.5 pF

Arc voltage at 1 A
- ~12 V

Glow to arc transition current
- <0.1 A

Glow voltage
- ~60 V

Weight
- ~1.5 g

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

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

Certification
- UL 497B (E163070)

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**

![Dimensional drawing](image)

**Ordering codes and packing advices**

*B88069X0940C103 = 1000 pcs. on container*

**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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