



Surge arrester

3-electrode arrester

Series/Type: EZ3-A350XF1
Ordering code: B88069X4941B502
Version/Date: Issue 02 / 2007-09-06

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Surge arrester
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3-electrode arrester
EZ3-A350XF1

| Features | Applications |
|--|--|
| <ul style="list-style-type: none"> Extremely small size Fast response time High current rating Stable performance over life Very low capacitance High insulation resistance Reliable failsafe device RoHS-compatible | <ul style="list-style-type: none"> Branch exchange (MDF) Line protection Station protection |

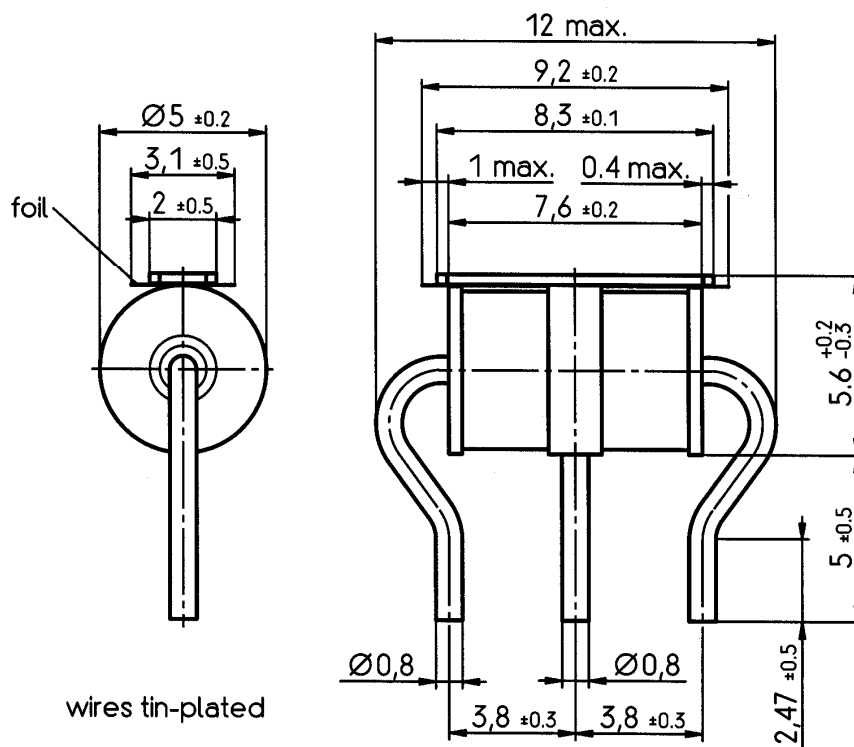
Electrical specifications

| | | |
|--|---|--------|
| DC spark-over voltage ^{1) 2) 4)} | 350 ± 20 | V % |
| Impulse spark-over voltage ⁴⁾ | | |
| at 100 V/μs - for 99 % of measured values | < 650 | V |
| - typical values of distribution | < 600 | V |
| at 1 kV/μs - for 99 % of measured values | < 800 | V |
| - typical values of distribution | < 750 | V |
| Service life | | |
| 10 operations 50 Hz, 1 s ⁵⁾ | 5 | A |
| 1 operation 50 Hz, 0.18 s ⁵⁾ | 5 | A |
| 10 operations [5x (+) & 5x (-)] 8/20 μs ⁵⁾ | 5 | kA |
| 1 operation 10/350 μs ⁵⁾ | 1 | kA |
| 300 operations (alternating polarity) 10/1000 μs ⁵⁾ | 200 | A |
| Insulation resistance at 100 V _{dc} ⁴⁾ | > 1 | GΩ |
| Capacitance at 1 MHz ⁴⁾ | < 1.5 | pF |
| DC holdover voltage ³⁾ | | |
| at 135 V _{dc} / 1300 Ω | < 150 | ms |
| Transverse delay time ³⁾ | < 0.2 | μs |
| Arc voltage at 1 A | ~ 10 | V |
| Glow to arc transition current | ~ 1 | A |
| Glow voltage | ~ 80 | V |
| Weight | ~ 1.0 | g |
| Storage temperature | -40 ... +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | |
| Marking, blue negative | EPCOS EZ 350 YY O EZ - Series 350 - Nominal voltage YY - Year of production O - Non radioactive | |

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
 - 2) In ionized mode
 - 3) Test according to ITU-T Rec. K.12
 - 4) Tip or ring electrode to center electrode
 - 5) Total current through center electrode, half value through tip respectively ring electrode.
- Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Arrester fail safe works at temperatures $> 260\text{ }^{\circ}\text{C}$. The arrester has to be fixed mechanically, if the arrester is contacted by soldering and if the solder temperature is less than $260\text{ }^{\circ}\text{C}$.

Dimensional Drawing



Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.
- Surge arrester with triggered short-circuit mechanism must not be re-used.

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