



## Surge arrester

### 3-electrode arrester

**Series/Type:** EZ3-A350X  
**Ordering code:** B88069X5191B502  
**Version/Date:** Issue 02 / 2007-09-06

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**Surge arrester**
**B88069X5191B502**
**3-electrode arrester**
**EZ3-A350X**

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

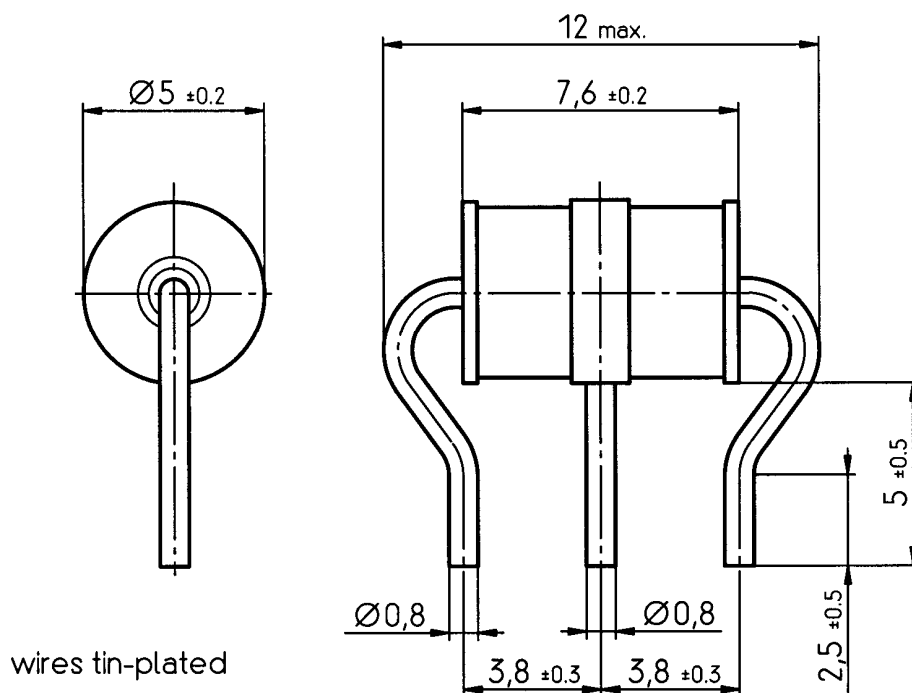
**Electrical specifications**

|                                                                |                                                                                                                                                     |        |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| DC spark-over voltage <sup>1) 2) 4)</sup>                      | 350<br>± 20                                                                                                                                         | V<br>% |
| Impulse spark-over voltage <sup>4)</sup>                       |                                                                                                                                                     |        |
| 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 <sup>5)</sup>    | 5                                                                                                                                                   | A      |
| 1 operation                        50 Hz, 0.18 s <sup>5)</sup> | 5                                                                                                                                                   | A      |
| 10 operations [5x (+) & 5x (-)]   8/20 μs <sup>5)</sup>        | 5                                                                                                                                                   | kA     |
| 1 operation                        10/350 μs <sup>5)</sup>     | 1                                                                                                                                                   | kA     |
| 300 operations (alternating polarity) 10/1000 μs <sup>5)</sup> | 200                                                                                                                                                 | A      |
| Insulation resistance at 100 V <sub>dc</sub> <sup>4)</sup>     | > 1                                                                                                                                                 | GΩ     |
| Capacitance at 1 MHz <sup>4)</sup>                             | < 1.5                                                                                                                                               | pF     |
| DC holdover voltage <sup>3)</sup>                              |                                                                                                                                                     |        |
| at 135 V <sub>dc</sub> / 1300 Ω                                | < 150                                                                                                                                               | ms     |
| Transverse delay time <sup>3)</sup>                            | < 0.2                                                                                                                                               | μs     |
| Arc voltage at 1 A                                             | ~ 10                                                                                                                                                | V      |
| Glow to arc transition current                                 | ~ 1                                                                                                                                                 | A      |
| Glow voltage                                                   | ~ 80                                                                                                                                                | V      |
| Weight                                                         | ~ 0.8                                                                                                                                               | g      |
| Operation and storage temperature                              | -40 ... +90                                                                                                                                         | °C     |
| Climatic category (IEC 60068-1)                                | 40/ 90/ 21                                                                                                                                          |        |
| Marking, blue, negative                                        | <b>EPCOS</b><br><b>EZ 350 YY O</b><br>EZ       - Series<br>350      - Nominal voltage<br>YY      - Year of production<br>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

## 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.

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