# Surge arrester

## 3-electrode arrester

| | |
|---|---|
| **Series/Type:** | **T23-A350X** |
| **Ordering code:** | **B88069X7200B502** |
| Version/Date: | Issue 06 / 2007-04-23 |



EPCOS AG is a TDK Group Company.

**Surge arrester** **B88069X7200B502**

**3-electrode arrester** **T23-A350X**

| Features | Applications |
|---|---|
| ▪ Standard size<br>▪ Fast response time<br>▪ Very high current rating<br>▪ Stable performance over life<br>▪ Very low capacitance<br>▪ High insulation resistance<br>▪ RoHS-compatible | ▪ Line protection<br>▪ Station protection<br>▪ Base stations |

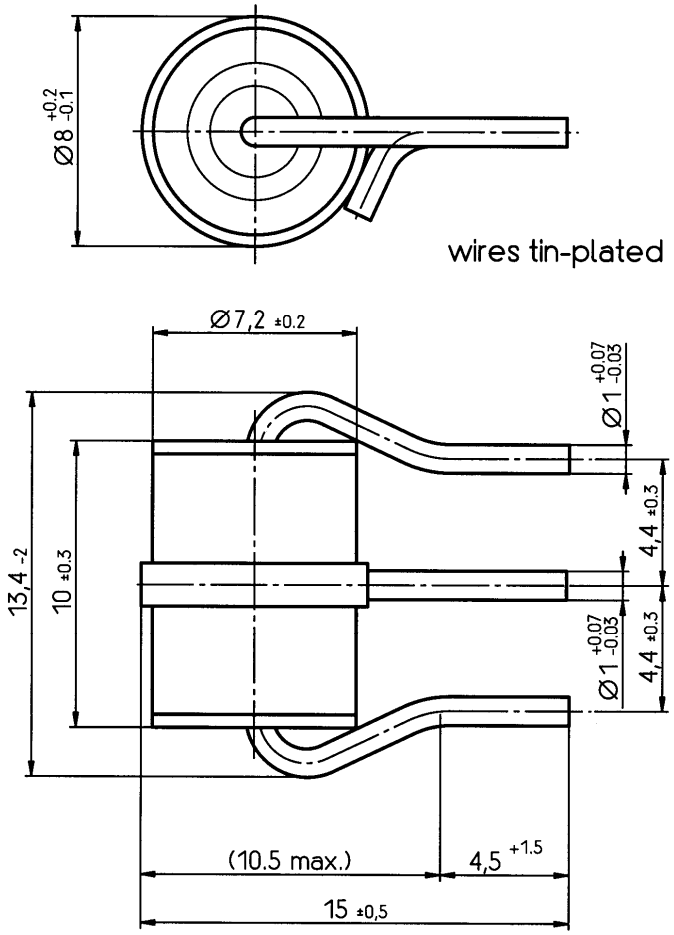
## Electrical specifications

| | | |
|---|---|---|
| DC spark-over voltage [1) 2) 4)] | 350<br>± 20 | V<br>% |
| Impulse spark-over voltage [4)] | | |
| at 100 V/µs - for 99 % of measured values | < 650 | V |
| at 100 V/µs - typical values of distribution | < 550 | V |
| at 1 kV/µs - for 99 % of measured values | < 700 | V |
| at 1 kV/µs - typical values of distribution | < 600 | V |
| Service life | | |
| 10 operations 50 Hz; 1 s [5)] | 20 | A |
| 1 operation 50 Hz; 9 cycles [5)] | 50 | A |
| 10 operations 8/20 µs [5)] | 20 | kA |
| 1 operation 8/20 µs [5)] | 25 | kA |
| 5 operations 10/250 µs [5)] | 5 | kA |
| 2 operations 10/350 µs [5)] | 5 | kA |
| 300 operations 5/300 µs [5)] | 200 | A |
| Insulation resistance at 100 $V_{dc}$ [4)] | > 10 | GΩ |
| Capacitance at 1 MHz [4)] | < 1.5 | pF |
| Transverse delay time [3)] | < 0.2 | µs |
| Arc voltage at 1 A<br>Glow to arc transition current<br>Glow voltage | ~ 35<br>~ 1<br>~ 200 | V<br>A<br>V |
| Weight | ~ 2.2 | g |
| Operation and storage temperature | -40 ... +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | |
| Marking, blue negative | **EPCOS**<br>**350 YY O**<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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

## Important notes

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