

Surge arrester

3-electrode arrester

Series/Type: T20-A230XF

Ordering code: B88069X8720B502 Version/Date: Issue 04 / 2007-10-18

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Surge arrester B88069X8720B502
3-electrode arrester T20-A230XF

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

Electrical specifications

| DC spark-over voltage 1) 2) 4) | | 230 | V % |
|---|--|--|-------------|
| | | ± 20 | 70 |
| Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution | | < 400 < 350 | V |
| • | for 99 % of measured valuestypical values of distribution | | V V |
| Service life | | | |
| 10 operations | 50 Hz; 1 s ⁵⁾ | 10 | Α |
| 1 operation | 50 Hz; 0.18 s (9 cycles) 5) | 50 | Α |
| 10 operations [5x (+) & 5x (-)] | 8/20 μs ⁵⁾ | 20 | kA |
| 1 operation | 8/20 μs ⁵⁾ | 25 | kA |
| 1 operation | 10/350 μs ⁵⁾ | 5 | kA |
| 300 operations | 10/1000 μs ⁵⁾ | 200 | Α |
| 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 Glow to arc transition current Glow voltage | | ~ 35 ~ 1 ~ 200 | V A V |
| Weight | | ~ 2.2 | g |
| Storage temperature | | -40 +90 | C |
| Climatic category (IEC 60068-1) | | 40/ 90/ 21 | |
| Marking, blue negative | | EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive | |

KB AB E / KB AB PM Issue 04 / 2007-10-18



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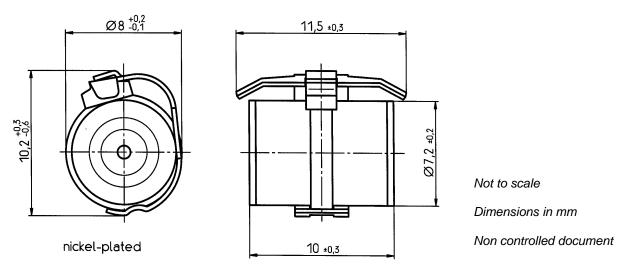
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring electrode.

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

The arrester failsafe mechanism contains a solder pellet with a melting temperature between 193 and 203 °C.

Dimensional drawing



Cautions and warnings

- The short-circuit spring does not trigger until 180 °C is reach ed depending on the material. Care must be taken to limit the thermal radiation onto adjacent parts to safe values.
- 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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