

Surge arrester

3-electrode arrester

 Series/Type:
 T23-A420X

 Ordering code:
 B88069X8070B502

 Version/Date:
 Issue 09 / 2007-04-23

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Surge arrester

3-electrode arrester

B88069X8070B502 T23-A420X

| 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 | | |
| RoHS-compatible | | |

Electrical specifications

| DC spark-over voltage ^{1) 2) 4)} | 350 550 | V |
|---|--|-------------|
| Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution | < 750 < 700 | VVV |
| at 1 kV/µs - for 99 % of measured values - typical values of distribution | < 850 < 800 | V V |
| Service life | | |
| 10 operations 50 Hz; 1 s $^{5)}$ | 10 | А |
| 1 operation 50 Hz; 9 cycles $^{5)}$ | 50 | А |
| 10 operations $8/20 \ \mu s^{5}$ | 20 | kA |
| 1 operation $8/20 \ \mu s^{5}$ | 25 | kA |
| 1 operation 10/350 μs ⁵⁾ | 5 | kA |
| 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 | ~ 30 ~ 1 ~ 200 | V A V |
| Weight | ~ 2.2 | g |
| Operation and storage temperature | -40 +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | |
| Marking, blue negative | EPCOS 420 YY M O 420 - Nominal voltage YY - Year of production M - Month of production (1 9 = Jan Sep; O D = Oct Dec) O - Non radioactive | |

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Please read *Cautions and warnings* and *Important notes* at the end of this document.

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Surge arrester

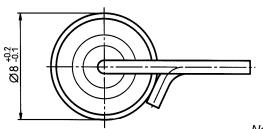
3-electrode arrester

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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
- 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

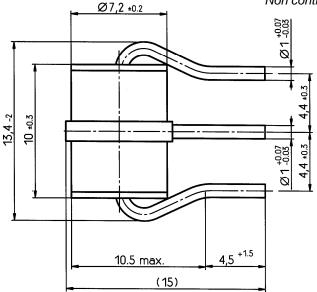


Not to scale

tin-plated

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.

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