

Surge arrester

3-electrode arrester

 Series/Type:
 T23-A420XF4

 Ordering code:
 B88069X7140B502

 Version/Date:
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3-electrode arrester T23-A420XF4

| 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 | V |
| at 1 kV/µs - for 99 % of measured values - typical values of distribution | < 850 < 800 | V |
| Service life 10 operations 50 Hz; 1 s ⁵⁾ 1 operation 50 Hz; 9 cycles ⁵⁾ 10 operation 8/20 µs ⁵⁾ 1 operation 8/20 µs ⁵⁾ 1 operation 10/350 µs ⁵⁾ | 10 50 20 25 5 | A A kA 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 | ~ 2.5 | g |
| Storage temperature | -40 +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | |
| Marking, blue negative | ue 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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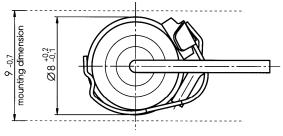
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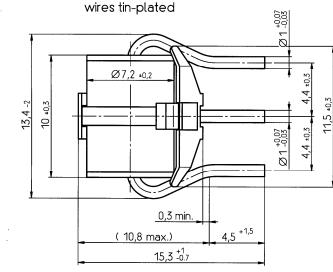
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- 5) Total current through center electrode, half value through tip respectively ring electrode.

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

The arrester failsafe mechanism contains a solder pellet with a melting temperature between 193 and 203 $^{\circ}$ C.

Dimensional drawing





Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- The short-circuit spring does not trigger until 180 °C is reached 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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