

Surge arrester

3-electrode arrester

 Series/Type:
 T90-A230XSMD

 Ordering code:
 B88069X6680T902

 Version/Date:
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Surge arrester

3-electrode arrester

Preliminary data

| Features | Applications | |
|--|--|--|
| Very small size | Line protection | |
| Fast response time | Station protection | |
| High current rating | Base stations | |
| Stable performance over life | | |
| Extremely low capacitance | | |
| High insulation resistance | | |
| Excellent SMD handling | | |
| RoHS-compatible | | |

Electrical specifications

| DC spark-over voltage ^{1) 2) 4)} | 230 | V |
|---|----------------|------------------|
| | ± 20 | % |
| Impulse spark-over voltage ⁴⁾ | 500 | |
| at 100 V/µs - for 99 % of measured values - typical values of distribution | < 580 < 460 | V V |
| | | |
| at 1 kV/µs - for 99 % of measured values - typical values of distribution | < 750 < 600 | V V |
| Service life | | |
| 10 operations 50 Hz; 1 s $^{5)}$ | 5 | A _{rms} |
| 1 operation 50 Hz; 0.18 s (9 cycles) ⁵⁾ | 10 | A _{rms} |
| 10 operations $8/20 \ \mu s^{5}$ | 5 | kA |
| 1 operation $8/20 \ \mu s^{5}$ | 10 | kA |
| 5 operations 10/250 μ s ⁵⁾ | 2 | kA |
| 2 operations 10/350 μ s ⁵⁾ | 2.5 | kA |
| 300 operations 10/1000 µs ⁵ | 200 | A |
| DC holdover voltage ³⁾ | | |
| at 52 V _{dc} / 260 Ω | < 150 | ms |
| at 80 V _{dc} / 330 Ω | < 150 | ms |
| at 135 V _{dc} / 1300 Ω | < 150 | ms |
| Insulation resistance at 100 $V_{dc}^{4)}$ | > 1 | GΩ |
| Capacitance at 1 MHz ⁴⁾ | < 1 | pF |
| Transverse delay time 4) | < 0.2 | μs |
| Arc voltage at 1 A | ~ 10 | V |
| Glow to arc transition current | ~ 1 | A |
| Glow voltage | ~ 60 | V |
| Weight | ~ 0.8 | g |
| Operation and storage temperature | -40 +90 | C |
| Climatic category (IEC 60068-1) | 40/90/21 | |
| | | |

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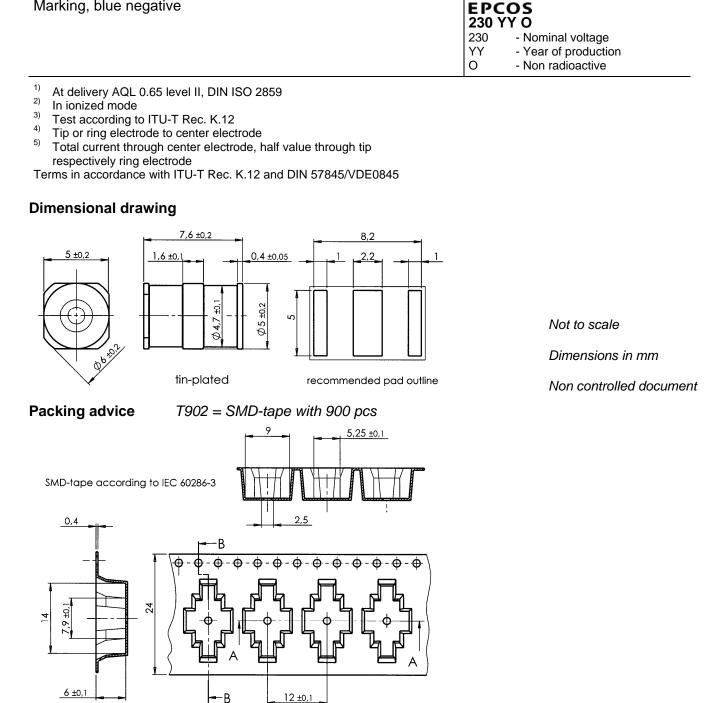
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Marking, blue negative

Preliminary data



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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