

Surge arrester

3-electrode arrester

 Series/Type:
 T31-A230X

 Ordering code:
 B88069X3130xxxx ^{a)}

 Version/Date:
 Issue 05 / 2007-03-29

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Surge arrester

3-electrode arrester

B88069X3130xxxx ^{a)} T31-A230X

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

Electrical specifications

| DC spark-over voltage | e ¹⁾²⁾⁴⁾ | | 230 ± 20 | V % |
|---|---|--|--|-------------|
| Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution | | | < 400 < 350 | V V |
| at 1 kV/µs | for 99 % of measured values typical values of distribution | | < 450 < 420 | V V |
| Service life | | | | |
| 10 operations | 6 | 50 Hz; 1 s ⁵⁾ | 10 | А |
| 1 operation | | 50 Hz; 0.18 s (9 cycles) ⁵⁾ | 30 | А |
| 10 operations | S [5x (+) & 5x (-)] | 8/20 µs ⁵⁾ | 10 | kA |
| 1 operation | | 8/20 µs ⁵⁾ | 12 | kA |
| 2 operations | S [1x (+) & 1x (-)] | 10/350 µs ⁵⁾ | 2 | kA |
| Insulation resistance a | at 100 V_{dc} 4) | | > 10 | GΩ |
| Capacitance at 1 MHz | <u>z</u> ⁴⁾ | | < 1.5 | pF |
| Transverse delay time | e ³⁾ | | < 0.2 | μs |
| Arc voltage at 1 A Glow to arc transition Glow voltage | current | | ~ 30 ~ 1 ~ 200 | V A V |
| Weight | | | ~ 1.4 | g |
| Operation and storage | e temperature | | -40 +90 | °C |
| Climatic category (IEC 60068-1) | | 40/ 90/ 21 | | |
| Marking, blue negativ | e | | EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive | |



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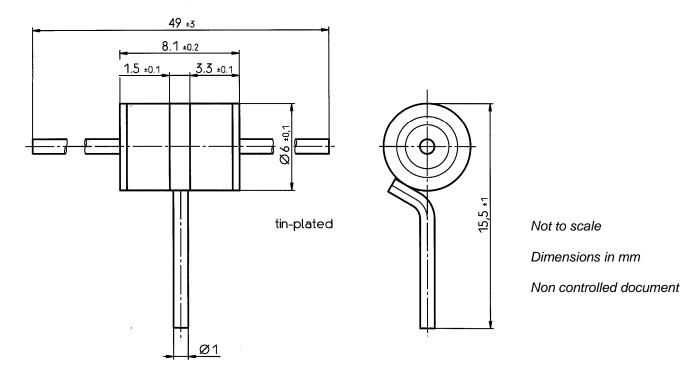
3-electrode arrester

B88069X3130xxxx ^{a)} T31-A230X

- ^{a)} xxxx = B102 (100 pcs. on tray) = B252 (250 pcs. on tray)
- 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 and current waveforms in accordance with ITU-T Rec. K.12; IEC 61643-21 and DIN 57845/VDE0845

Dimensional drawing



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.

KB AB E / KB AB PM



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