

Surge arrester

3-electrode arrester

Version:

 Series/Type:
 T23-C600X

 Ordering code:
 B88069X8120B502

 Date:
 2019-08-29

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T23-C600X

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Surge arrester

3-electrode arrester

Features

- Standard size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Electrical specifications

Applications

- Base stations
- Line protection
- Station protection

| DC spark-over voltage ^{1) 2) 3)} | | 420 700 | V |
|---|--|---|-------------|
| Impulse spark-over voltage 3) | | | |
| at 100 V/μs - for 99% of measured values | | < 900 | V |
| typical values of distribution | | < 800 | V |
| at 1 kV/µs - for 99% of measured values | | < 1000 | V |
| - typical values | of distribution | < 950 | V |
| Service life | | | |
| 10 operations | 50 Hz; 1 s ⁴⁾ | 20 | A |
| 1 operation | 50 Hz; 0.18 s (9 cycl.) ^{4) 5)} | 130 | A |
| 10 operations [5× (+) & 5× (-)] | 8/20 μs ⁴⁾ | 20 | kA |
| 1 operation | 8/20 µs ^{4) 5)} | 40 | kA |
| 1 operation | 10/350 μs ⁴⁾ | 5 | kA |
| 400 operations | 10/1000 µs ⁴⁾ | 1000 | А |
| Insulation resistance at 100 V_{DC} ³⁾ | | > 10 | GΩ |
| Capacitance at 1 MHz ³⁾ | | < 1.5 | pF |
| Transverse delay time 6) | | < 0.2 | μs |
| Arc voltage at 1 A | | ~ 20 | V |
| Glow to arc transition current | | < 0.5 | А |
| Glow voltage | | ~ 200 | V |
| Weight | | ~ 2.2 | g |
| Operation and storage temperature | | -40 +125 | °C |
| Climatic category (IEC 60068-1) | | 40/125/21 | |
| Marking, blue negative | | EPCOS 600 YY O 600 - Nominal voltage YY - Year of production O - Non radioactive | |
| Certifications | | UL 497B (E16307 | 0) N |

Remarks on next page

②TDK

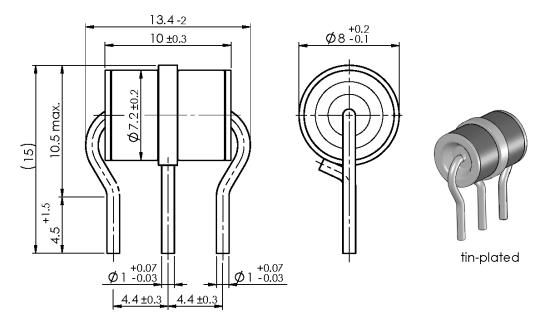
Surge arrester

3-electrode arrester

- ¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Tip or ring electrode to center electrode
- ⁴⁾ Total current through center electrode, half value through tip respectively ring electrode
- ⁵⁾ DC spark-over values may exceed ± 30 % after stress, but tubes still operates w/o venting
- ⁶⁾ Test according to ITU-T Rec. K.12

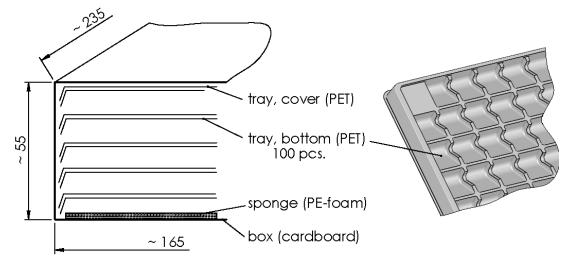
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

B88069X8120**B502** = 500 pcs. on trays



PPD AB PD / PPD AB PM

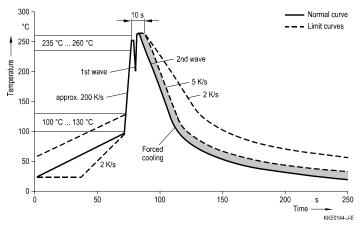


Surge arrester

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Soldering parameter

Wave soldering



| Wave profile features | Pb-free assembly |
|-------------------------|---------------------------|
| Solder | Sn 95.5 / Ag 3.8 / Cu 0.7 |
| Solder bath temperature | 263 (±3) °C |
| Dwell time | < 3 s |

Soldering profile applied to a single soldering process.

Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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