

Surge arrester

3-electrode arrester

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|-----------------------|------------------------|
| Series/Type: | T23-C600X |
| Ordering code: | B88069X8120B502 |
| Date: | 2015-06-03 |
| Version: | 04 |

Surge arrester

B88069X8120B502

3-electrode arrester

T23-C600X

Features

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

Applications

- Base stations
- Line protection
- Station protection

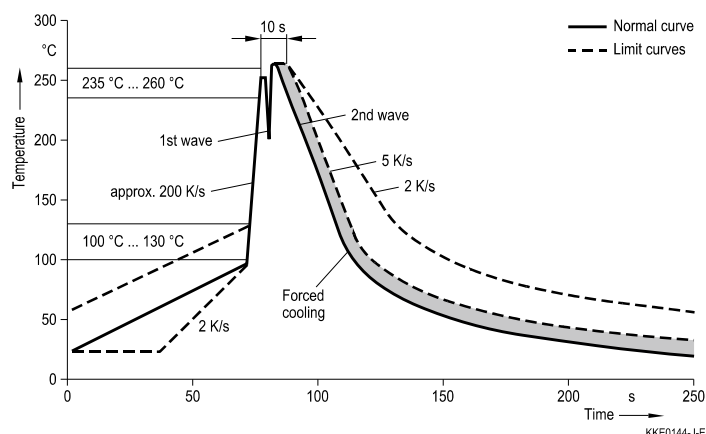
Electrical specifications

| | | |
|--|---|----|
| 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 [5x (+) & 5x (-)] 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 | A |
| 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 | A |
| Glow voltage | ~ 200 | V |
| Weight | ~ 2.2 | g |
| Operation and storage temperature | -40 ... +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | |
| Marking, blue negative | EPCOS 600 YY O 600 - Nominal voltage YY - Year of production O - Non radioactive | |

Remarks on next page

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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Release 2018-10

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Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.