



Surge arrester

2-electrode arrester

Series/Type: M50-C90X
Ordering code: B88069X1590C253
Version/Date: Issue 03 / 2006-08-31

| Features | Applications |
|--|--|
| <ul style="list-style-type: none"> ▪ Very small size ▪ High current rating ▪ Very fast response time ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ RoHS-compatible | <ul style="list-style-type: none"> ▪ Modem ▪ XDSL-splitter ▪ Data lines ▪ Tuner ▪ Antenna |

Electrical specifications

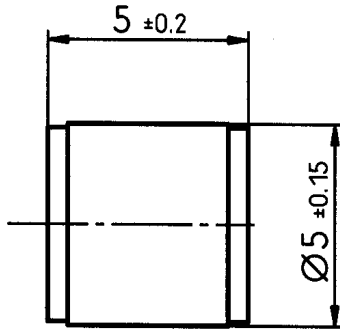
| | | |
|---|--|--------|
| DC spark-over voltage ^{1) 2)} | 90 ± 20 | V % |
| Impulse spark-over voltage | | |
| at 100 V/μs - for 99 % of measured values | < 550 | V |
| - typical values of distribution | < 500 | V |
| at 1 kV/μs - for 99 % of measured values | < 600 | V |
| - typical values of distribution | < 550 | V |
| Service life | | |
| 10 operations 50 Hz, 1 s | 5 | A |
| 1 operation 50 Hz, 0.18 s (9 cycles) | 10 | A |
| 10 operations 8/20 μs | 5 | kA |
| 1 operation 8/20 μs | 10 | kA |
| 1 operation 10/350 μs | 0.5 | kA |
| 300 operations 10/1000 μs | 100 | A |
| Insulation resistance at 50 V _{dc} | > 1 | GΩ |
| Capacitance at 1 MHz | < 1 | pF |
| Arc voltage at 1 A | ~ 15 | V |
| Glow to arc transition current | ~ 0.8 | A |
| Glow voltage | ~ 60 | V |
| Weight | ~ 1 | g |
| Operation and storage temperature | -40 ... +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | |
| Marking, blue negative | EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive | |

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

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

Dimensional drawing



nickel-plated

Not to scale

Dimensions in mm

Non controlled document

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.

Important notes

The following applies to all products named in this publication:

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