

Surge arrester

2-electrode arrester

Series/Type:EM300XOrdering code:B88069X0800xxxx a)Version/Date:Issue 07 / 2007-01-11

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Surge arrester

| Features | Applications | |
|--|-----------------------------------|--|
| Very small size | Modem | |
| Fast response time | XDSL-splitter | |
| Stable performance over life | Tuner | |
| Extremely low capacitance | | |
| High insulation resistance | | |
| RoHS-compatible | | |

Electrical specifications

| DC spark-over voltage ^{1) 2)} | 270 345 | V |
|---|---|--------|
| Impulse spark-over voltage | | |
| at 100 V/µs - for 99 % of measured values - typical values of distribution | < 700 < 600 | V V |
| at 1 kV/µs - for 99 % of measured values - typical values of distribution | < 800 < 700 | V V |
| Service life | | |
| 10 operations 50 Hz, 1 s | 2.5 | A |
| 10 operations 8/20 μs | 2.5 | kA |
| 1 operation 10/350 µs | 0.5 | kA |
| Insulation resistance at 100 V_{dc} | > 1 | GΩ |
| Capacitance at 1 MHz | < 1 | pF |
| Arc voltage at 1 A | ~ 11 | V |
| Glow to arc transition current | ~ 0.5 | A |
| Glow voltage | ~ 80 | V |
| Weight | ~ 1 | g |
| Operation and storage temperature | -40 +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/21 | |
| Marking, red positive | EPCOSEM 300 YY EM - Series 300 - Nominal voltage YY - Year of productio O - Non radioactive | - |

^{a)} xxxx = S102 (100 pcs on 5 taped stripes) = T502 (500 pcs on tape and reel)

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

²⁾ In ionized mode

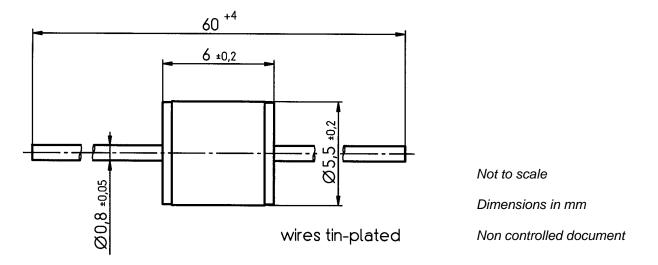
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845



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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.



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