

# **Surge Arrester**

3-Electrode-Arrester

Version:

 Series/Type:
 T80-A90XSMDN

 Ordering code:
 B88069X5930T502

 Date:
 05.05.2003

Issue 01

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# **公TDK**

## Surge Arrester

#### **3-Electrode-Arrester**

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| DC spark-over voltage <sup>1) 2) 4)</sup>   | 90<br>± 20  | V<br>%      |
|---|---|-------------|
| Impulse spark-over voltage <sup>4)</sup><br>at 100 V/µs – for 99 % of measured values<br>- typical values of distribution                 | < 400<br>< 300  |             |
| at 1 kV/µs - for 99 % of measured values<br>- typical values of distribution  | < 550<br>< 450  | V<br>V      |
| Nominal impulse discharge current (wave 8/20 $\mu$ s) <sup>5)</sup><br>Single impulse discharge current (wave 8/20 $\mu$ s) <sup>5)</sup> | 10<br>15  | kA<br>kA    |
| Nominal alternating discharge current (50 Hz, 1 s) <sup>5)</sup><br>Alternating discharge current (50 Hz, 9 cycles) <sup>5)</sup>         | 10<br>40  | A<br>A      |
| Insulation resistance at 50 V <sub>dc</sub> <sup>4)</sup>   | > 10  | GΩ          |
| Capacitance at 1 MHz <sup>4)</sup>  | < 1.5   | pF          |
| Transverse delay time <sup>3)</sup>   | < 0.2   | μs          |
| Arc voltage at 1 A<br>Glow to arc transition current<br>Glow voltage  | ~ 10<br>~ 1<br>~ 60   | V<br>A<br>V |
| Weight  | ~ 2   | g           |
| Operation and storage temperature   | -40 +90   | °C          |
| Climatic category (IEC 60068-1)   | 40/ 90/ 21  |             |
| Marking, red  | <b>EPCOS</b><br>90 YY O<br>90 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive |             |

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

2) In ionized mode

3) Test according to ITU-T Rec. K.12 Tip or ring electrode to center electrode

4)

<sup>5)</sup> Total current through center electrode, half value through tip respectively ring electrode.

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

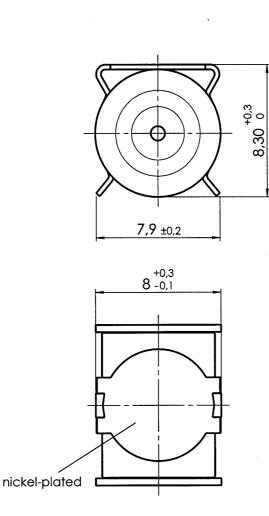


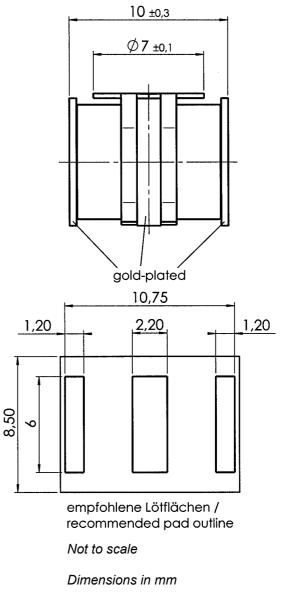
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