

**Surge Arrester**
**T83-A90XF4**
**3-Electrode-Arrester**
**Ordering code: B88069X8350B502**

|                                                                                                                                                                                                           |                                                                                                          |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------|
| 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<br>at 1 kV/μs - for 99 % of measured values<br>- typical values of distribution | < 400<br>< 300<br>< 450<br>< 350                                                                         | V<br>V<br>V<br>V |
| Nominal impulse discharge current (wave 8/20 μs) <sup>5)</sup><br>Single impulse discharge current (wave 8/20 μs) <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                                                                                                                                                                                                    | ~ 2.2                                                                                                    | g                |
| Storage temperature                                                                                                                                                                                       | -40 ... +90                                                                                              | °C               |
| Climatic category (IEC 60068-1)                                                                                                                                                                           | 40/ 90/ 21                                                                                               |                  |
| Marking, red                                                                                                                                                                                              | <b>EPCOS</b><br><b>90 YY O</b><br>90 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive |                  |

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

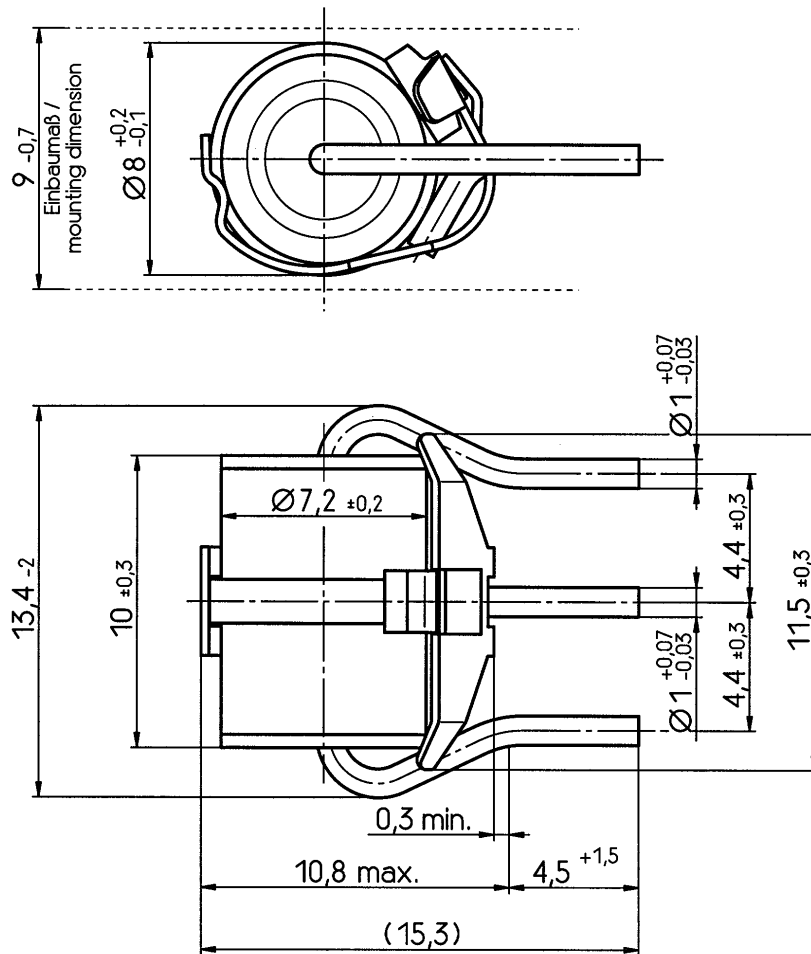
<sup>2)</sup> In ionized mode

<sup>3)</sup> Test according to ITU-T Rec. K.12

<sup>4)</sup> Tip or ring electrode to center electrode

<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



*Not to scale*

*Dimensions in mm*

*Non controlled document*

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