Surge arrester

3-electrode arrester

Series/Type:	**T83-A150XF1**
Ordering code:	**B88069X9930B502**
Version/Date:	Issue 06 / 2006-06-22

Surge arrester **B88069X9930B502**

3-electrode arrester **T83-A150XF1**

Features	Applications
▪ Standard size ▪ Fast response time ▪ High current rating ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ Reliable failsafe device ▪ RoHS-compatible	▪ Branch exchange (MDF) ▪ Line protection ▪ Station protection

Electrical specifications

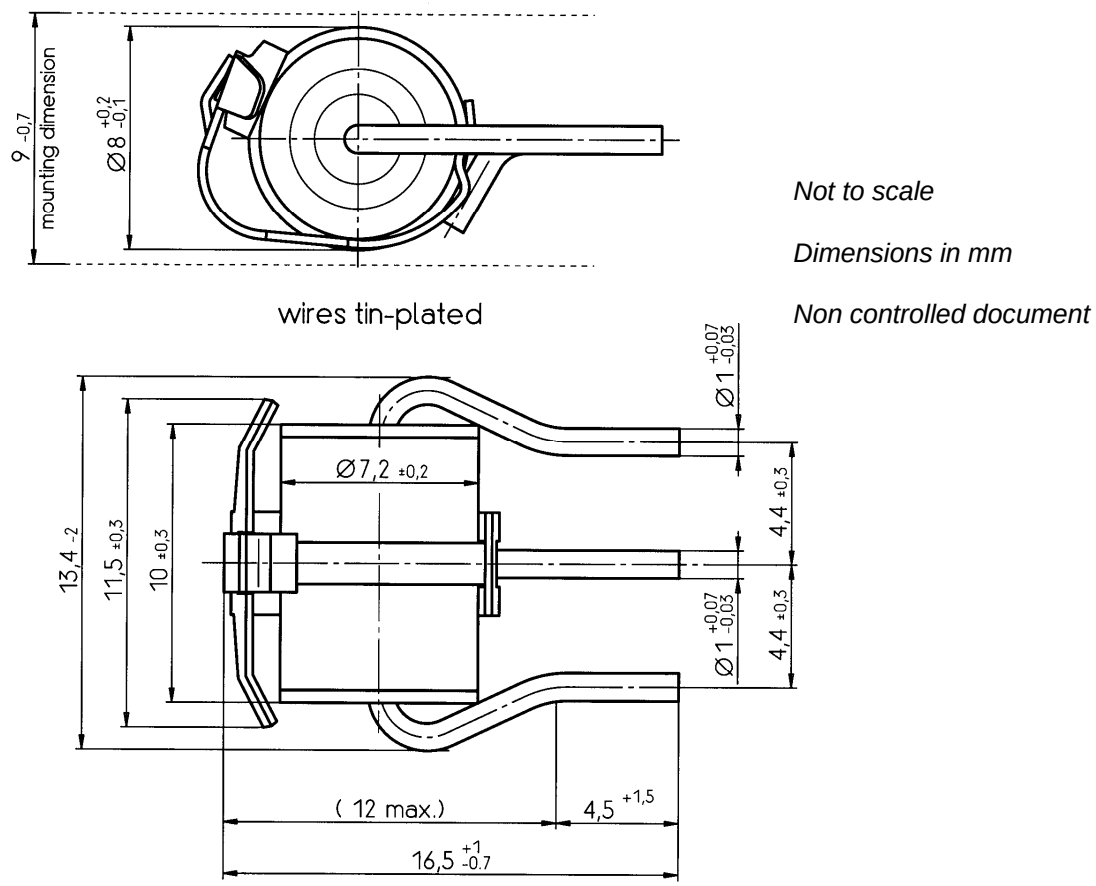
DC spark-over voltage [1) 2) 4)]	150 ± 20	V %
Impulse spark-over voltage [4)] at 100 V/µs - for 99 % of measured values - typical values of distribution at 1 kV/µs - for 99 % of measured values - typical values of distribution	 < 450 < 400 < 550 < 500	 V V V V
Nominal impulse discharge current (wave 8/20 µs) [5)] Single impulse discharge current (wave 8/20 µs) [5)]	10 15	kA kA
Nominal alternating discharge current (50 Hz, 1 s) [5)] Alternating discharge current (50 Hz, 9 cycles) [5)]	10 40	A A
Insulation resistance at 100 V_{dc} [4)]	> 10	GΩ
Capacitance at 1 MHz [4)]	< 1.5	pF
Transverse delay time [3)]	< 0.2	µs
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 ~ 0.6 ~ 60	V A V
Weight	~ 2.2	g
Storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red negative	**EPCOS** **150 YY O** 150 - Nominal voltage YY - Year of production 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
4) Tip or ring electrode to center electrode
5) 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

The arrester failsafe mechanism contains a solder pellet with a melting temperature range from 193 to 203 °C.

Dimensional Drawing



Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- The short-circuit spring does not trigger until 180 °C is reached depending on the material. Care must be taken to limit the thermal radiation onto adjacent parts to safe values.
- 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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