

Surge Arrester T90-A230XFSMD

3-Electrode-Arrester	Ordering code: B88069X6690T902
	9

DC spark-over voltage 1) 2) 3)	230 ± 20	V %
Impulse spark-over voltage ³⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution	< 580 < 460	V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 750 < 600	V
Insulation resistance at 100 V _{dc} ³⁾	> 1	$G\Omega$
Capacitance at 1 MHz 3)	< 1.5	pF
Service life according to ITU-T-Rec. K.12 300 operations 10/1000 μs ⁴⁾ 1 operation 10/350 μs ⁴⁾ 10 operations 8/20 μs ⁵⁾ 10 operations 50 Hz; 1 s ⁴⁾ 10 operations 50 Hz; 1 s ⁵⁾ Service life according to Telebras SDT 235-430-708 120 operations 10/1000 μs ⁴⁾ 20 operations 10/1000 μs ⁴⁾ 6 operations 10/1000 μs ⁶⁾ 2 operations 10/1000 μs ⁶⁾ 2 operations 10/1000 μs ⁶⁾ 10 operations 50 Hz; 1 s ⁴⁾ 1 operation 50 Hz; 0.33 s ⁴⁾	200 2 5 5 5 5 5 5 100 200 200 200 1 2	A kA kA kA A _{rms} A _{rms} A A A A A A A A A A A
DC holdover voltage 7)	20	/ rms
at 52 V_{dc} / 260 Ω at 80 V_{dc} / 330 Ω at 135 V_{dc} / 1300 Ω	< 150 < 150 < 150	ms ms ms
Transverse delay time 3)	< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 10 ~ 1 ~ 60	V A V
Weight	~ 0.8	g
Storage temperature	-40 +90	°C
Climatic category (IEC 60068-1) 40/ 90/ 2		

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Marking, blue

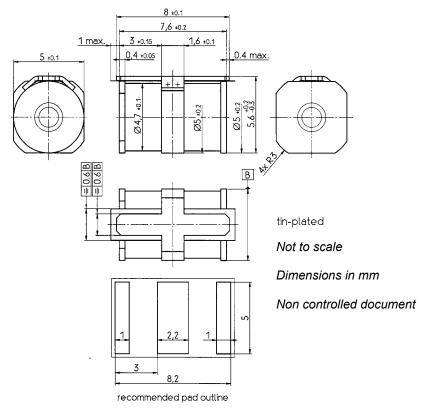
EPCOS
230 YY O
230 - Nominal voltage
YY - Year of production
O - Non radioactive

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Tip or ring electrode to center electrode
- 4) Total current through center electrode, half value through tip respectively ring electrode.
- 5) Total current through center electrode, same value through tip respectively ring electrode; in addition to ITU-T-Rec. K.12
- 6) 1 operation for each gap; total current through center electrode; same value through tip respectively ring electrode
- 7) Test according to ITU-T-Rec. K.12

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

The arrester failsafe mechanism contains a insulating foil with a melting temperature of 260 °C.

Arrester fail safe works at temperatures > 260 $^{\circ}$ C. The arrester has to be fixed mechanically, if the arrester is contacted by soldering and if the solder temperature is less than 260 $^{\circ}$ C.



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