

## **Surge Arrester**

3-Electrode-Arrester

Series/Type: T90-A230XFSMD Ordering code: B88069X6690T902

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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 V
Insulation resistance at 100 V <sub>dc</sub> 3)	> 1	$G\Omega$
Capacitance at 1 MHz <sup>3)</sup>	< 1.5	pF
Service life according to ITU-T-Rec. K.12 300 operations 10/1000 $\mu$ s <sup>4)</sup> 1 operation 10/350 $\mu$ s <sup>4)</sup> 10 operations 8/20 $\mu$ s <sup>5)</sup> 10 operations 50 Hz; 1 s <sup>4)</sup> 10 operations 50 Hz; 1 s <sup>5)</sup> Service life according to Telebras SDT 235-430-708 120 operations 10/1000 $\mu$ s <sup>4)</sup> 20 operations 10/1000 $\mu$ s <sup>4)</sup> 6 operations 10/1000 $\mu$ s <sup>6)</sup> 2 operations 10/1000 $\mu$ s <sup>6)</sup> 2 operations 10/1000 $\mu$ s <sup>6)</sup> 10 operations 50 Hz; 1 s <sup>4)</sup> 1 operation 50 Hz; 0.33 s <sup>4)</sup>	200 2 5 5 5 5 5 100 200 200 200 1 2	A kA kA kA Arms Arms A A A A A A A A A A A A A A A A A A A
DC holdover voltage <sup>7)</sup>	20	A <sub>rms</sub>
at $52~V_{dc}/~260~\Omega$ at $80~V_{dc}/~330~\Omega$ at $135~V_{dc}/~1300~\Omega$	< 150 < 150 < 150 < 0.2	ms ms ms
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/ 21	

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## 3-Electrode-Arrester

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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

Total current through center electrode, half value through tip respectively ring electrode.

Total current through center electrode, same value through tip respectively ring electrode; in addition to ITU-T-Rec. K.12

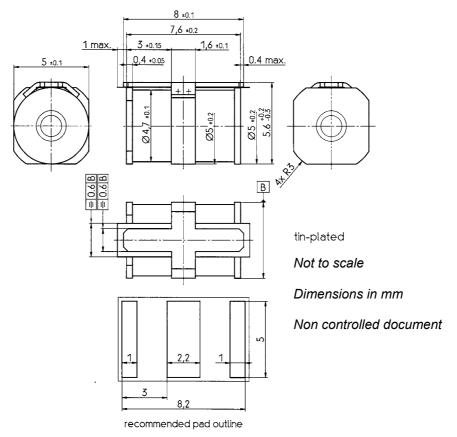
1 operation for each gap; total current through center electrode; same value through tip respectively ring electrode

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  $^{\circ}$ 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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