

Surge arrester

3-electrode arrester

Series/Type: T30-A90XG

Ordering code: B88069X2430T702

Version/Date: Issue 04 / 2007-11-14

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Surge arrester B88069X2430T702
3-electrode arrester T30-A90XG

Features	Applications
 Very small size 	■ Modem
 Extremely fast response time 	Data lines
 High current rating 	
 Stable performance over life 	
 Extremely low capacitance 	
 High insulation resistance 	
RoHS-compatible	

Electrical specifications

DC spark-over voltage 1) 2) 4)	90 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution	< 450 < 350	V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 500 < 400	V
Service life		
10 operations 50 Hz; 1 s $^{5)}$	10	A_{rms}
1 operation 50 Hz; 0.18 s (9 cycles) 5)	30	A_{rms}
10 operations 8/20 μs ⁵⁾	10	kA
1 operation $8/20 \mu s^{5}$	10	kA
1 operation 10/350 μ s ⁵⁾	2	kA
Insulation resistance at 50 V _{dc} ⁴⁾	> 1	$G\Omega$
Capacitance at 1 MHz ⁴⁾	< 1.5	pF
Transverse delay time 3)	< 0.2	μs
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 60	V
Weight	~ 1.2	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	

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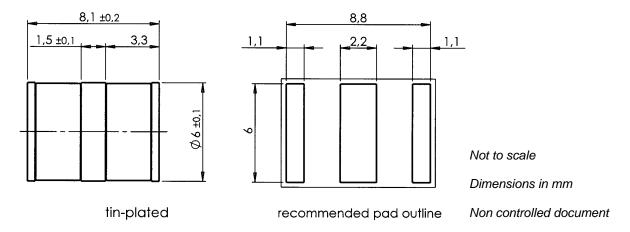
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

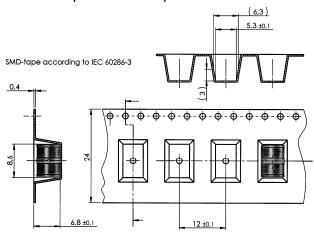
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Dimensional drawing



Packing advice

T702 = 700 pcs on SMD tape and reel



Cautions and warnings

- 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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