

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

3-electrode arrester

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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 V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 500 < 400	V 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 $8/20 \ \mu s^{5)}$	10	kA
1 operation $8/20 \ \mu s^{5)}$	10	kA
1 operation 10/350 μs ⁵⁾	2	kA
Insulation resistance at 50 V_{dc} ⁴⁾	> 1	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	~ 10 ~ 1 ~ 60	V A 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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Please read *Cautions and warnings* and *Important notes* at the end of this document.

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Surge arrester

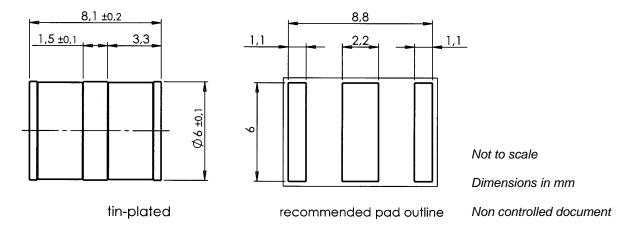
3-electrode arrester

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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.

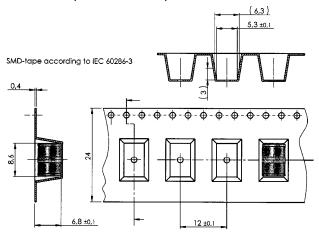
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

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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