

Surge arrester

3-electrode arrester

Series/Type: T20-A230XSMDN Ordering code: B88069X3651T502

Version/Date: Issue 03 / 2007-10-10

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Surge arrester B88069X3651T502
3-electrode arrester T20-A230XSMDN

Features	Applications
 Standard size 	Line protection
 Extremely fast response time 	 Station protection
 Very high current rating 	 Base stations
 Stable performance over life 	
 Very low capacitance 	
 High insulation resistance 	
Excellent SMD handling	
 RoHS-compatible 	

Electrical specifications

DC spark-over voltage 1) 2) 4)		230 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 400 < 350	V
at 1 kV/µs - for 99 % of mea		< 500 < 450	V V
Service life			
10 operations1 operation	50 Hz; 1 s ⁵⁾ 50 Hz; 0.18 s (9 cycles) ⁵⁾	10 50	A A
10 operations [5x (+) & 5x (-)]	8/20 µs ⁵⁾	20	kA
1 operation	8/20 µs ⁵⁾	25	kA
1 operation	10/350 μs ⁵⁾	5	kA
300 operations	10/1000 μs	200	Α
Insulation resistance at 100 V _{dc} ⁴⁾		> 10	$G\Omega$
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		~ 35 ~ 1 ~ 200	V A V
Weight		~ 2	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1) 40/ 90/ 21		40/ 90/ 21	•
Marking, blue negative		EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive	
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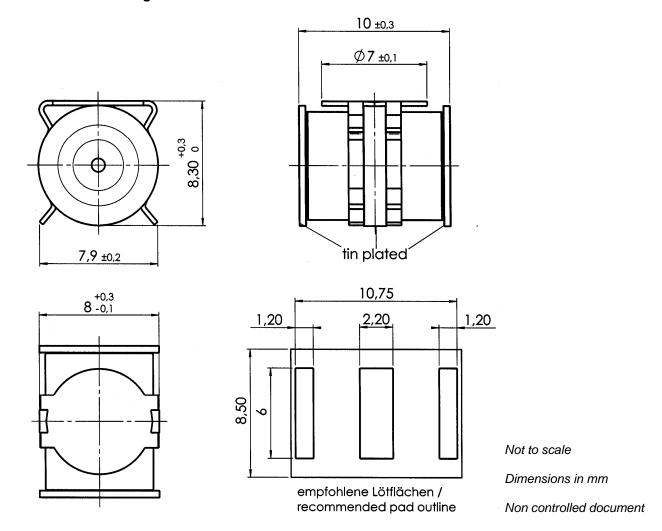
3-electrode arrester

T20-A230XSMDN

- 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



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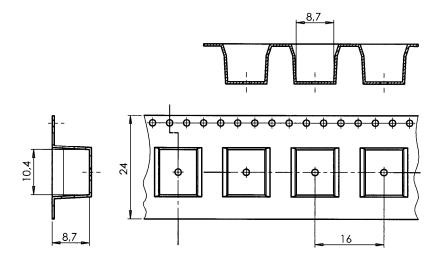
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Packing advice

T502 = SMD-tape with 500 pcs



SMD-tape according to IEC 60286-3

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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