

Surge arrester

3-electrode arrester

Series/Type: T30-A500X

Ordering code: B88069X3070C203

Version/Date: Issue 04 / 2007-05-08

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Surge arrester B88069X3070C203
3-electrode arrester T30-A500X

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

Electrical specifications

DC spark-over voltage 1) 2) 4)		500 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 1100 < 900	V
•	at 1 kV/µs - for 99 % of measured values - typical values of distribution		V V
Service life			
10 operations	50 Hz; 1 s ⁵⁾	10	Α
1 operation	50 Hz; 0.18 s (9 cycles) ⁵⁾	30	Α
10 operations [5x (+) & 5x (-)] 8/20 μs ⁵⁾	10	kA
1 operation	8/20 μs ⁵⁾	10	kA
1 operation	10/350 μs ⁵⁾	2	kA
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		~ 25 ~ 1 ~ 200	V A V
Weight		~ 1.4	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS 500 YY O 500 - Nominal voltage YY - Year of production O - Non radioactive	

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1) At delivery AQL 0.65 level II, DIN ISO 2859

2) In ionized mode

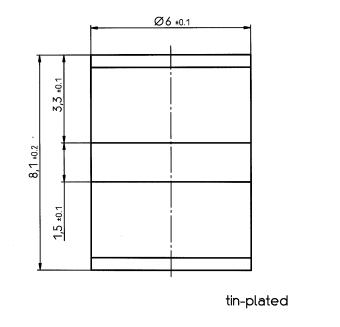
3) Test according to ITU-T Rec. K.12

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



Not to scale

Dimensions in mm

Non controlled document

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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