

Surge arrester

3-electrode arrester

T30-A500X

Series/Type: Ordering code: B88069X3070C203

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



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 valuestypical values of distribution		< 1400 < 1000	V V
Service life				
10 operations	3	50 Hz; 1 s ⁵⁾	10	Α
1 operation		50 Hz; 0.18 s (9 cycles) 5)	30	Α
10 operations	S [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 a	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			~ 25	V
Glow to arc transition current			~ 1	A
Glow voltage			~ 200	V
Weight			~ 1.4	g
Operation and storage	e temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21		
Marking, blue negative	9		EPCOS 500 YY O 500 - Nominal voltage YY - Year of production O - Non radioactive	

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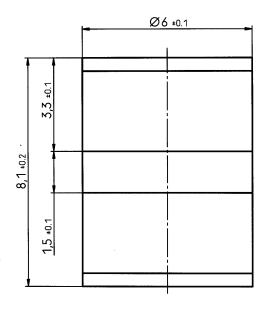
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring electrode.

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

Dimensional drawing



tin-plated

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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