

Surge arrester

3-electrode arrester

Series/Type: T30-A420X Ordering code: B88069X30

Ordering code: B88069X3040C253

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Surge arrester B88069X3040C253

3-electrode arrester T30-A420X

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)			357 525	V
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 750 < 700	V	
at 1 kV/µs	for 99 % of measured valuestypical values of distribution		< 800 < 750	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 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			~ 30	V
Glow to arc transition current		~ 1	A	
Glow voltage			~ 200	V
Weight			~ 1.4	g
Operation and storage	etemperature		-40 +90	°C
Climatic category (IEC	60068-1)		40/ 90/ 21	
Marking, blue negative			EPCOS 420 YY O 420 - Nominal voltage YY - Year of production O - Non radioactive	

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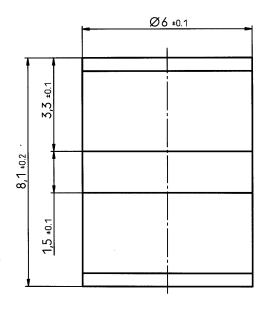
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring electrode.

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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