

Surge arrester

3-electrode arrester

Series/Type: T90-A230X

Ordering code: B88069X6700C253

Date: 2019-08-17

Version: 08

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Surge arrester B88069X6700C253

3-electrode arrester T90-A230X

Features

- Very small size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Line protection
- Station protection
- Base stations

Electrical specifications

DC spark-over voltage 1) 2) 3)		184 276	V
DC spark-over voltage ^{2) 4)}		176 550	V
Impulse spark-over voltage 3) at 100 V/µs - for 99% of measured values		< 600	V
- typical values of distribution		< 550	V
at 1 kV/µs - for 99% of measured values - typical values of distribution		< 700	V
		< 650	V
Service life			
10 operations	50 Hz; 1 s ⁶⁾	5	Α
10 operations	50 Hz; 1 s ⁵⁾	10	Α
10 operations [5x (+) & 5x (-)]	8/20 µs ⁵⁾	10	kA
10 operations [5x (+) & 5x (-)]	8/20 µs ⁶⁾	5	kA
5 operations	10/250 μs ⁵⁾	2.5	kA
2 operations	10/350 μs ⁵⁾	2.5	kA
300 operations	10/1000 μs ⁵⁾	200	Α
DC holdover voltage 8)			
at $52 V_{DC} / 260 \Omega$		< 150	ms
at $80 V_{DC} / 330 \Omega$		< 150	ms
at 135 V_{DC} / 1300 Ω		< 150	ms
Activation after reflow soldering 7)			
1 operation $U = 600 \text{ V}$; 1 s		2	Α
Insulation resistance at 100 V _{DC} ⁴⁾		> 1	GΩ
Capacitance at 1 MHz ⁴⁾		< 1.5	pF
Transverse delay time 4)		< 0.2	μs
Arc voltage at 1 A		~ 10	V
Glow to arc transition current	< 1	Α	
Glow voltage		~ 60	V
Weight		~ 0.8	g
Operation and storage temperature		-40 +12 5	°C

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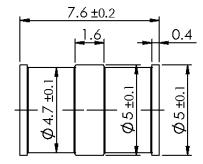
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3-electrode arrester	T90-A230X

Climatic category (IEC 60068-1)	40/125/21	
Marking, blue negative	EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive	
Certifications	UL 497B (E163070)	

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859 2) In ionized mode

Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm

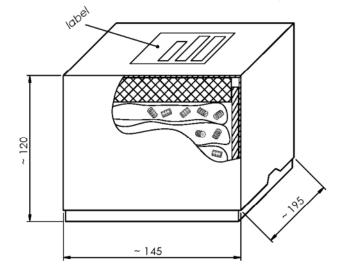




tin-plated

Ordering code and packing advice

B88069X6700**C253** = container with 2500 pcs.



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³⁾ Tip or ring electrode to center electrode

⁴⁾ Tip to ring electrode

⁵⁾ Total current through center electrode, half value through tip respectively ring electrode

Total current through center electrode, same value through tip respectively ring electrode

Total current from ring to tip electrode

⁸⁾ Test in accordance with ITU-Rec. K.12



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Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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