

Surge arrester

3-electrode arrester

Series/Type: T90-A230X

Ordering code: B88069X6700C253

Version/Date: Issue 07 / 2013-03-07

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3-electrode arrester T90-A230X

Features

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

Applications

- Line protection
- Station protection
- Base stations

Electrical specifications

DC spark-over voltage 1) 2) 3) DC spark-over voltage 2) 4)		184 276 176 550	V
at 1 kV/µs - for 99% of measured values 3) - for 50% of measured values 3)		< 700 < 650	V
Service life			
10 operations 10 operations 10 operations [5x (+) & 5x (-)]	50 Hz; 1 s ⁶⁾ 50 Hz; 1 s ⁵⁾ 8/20 μs ⁵⁾	5 10 10	A A kA
10 operations [5x (+) & 5x (-)] 5 operations 2 operations	8/20 μs ⁶⁾ 10/250 μs ⁵⁾ 10/350 μs ⁵⁾	5 2.5 2.5	kA kA kA
300 operations	10/1000 μs ⁵⁾	200	A
DC holdover voltage $^{8)}$ at $52~V_{DC}$ / $260~\Omega$ at $80~V_{DC}$ / $330~\Omega$ at $135~V_{DC}$ / $1300~\Omega$		< 150 < 150 < 150	ms ms ms
Activation after reflow soldering 7)			
1 operation	U = 600 V; 1 s	2	А
Insulation resistance at 100 V _{DC} ⁴⁾		> 1	$G\Omega$
Capacitance at 1 MHz 4)		< 1.5	pF
Transverse delay time 4)		< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 10 ~ 1 ~ 60	V A V
Weight		~ 0.8	g
Storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	

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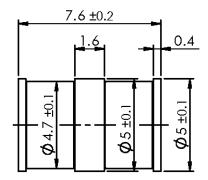
3-electrode arrester T90-A230X

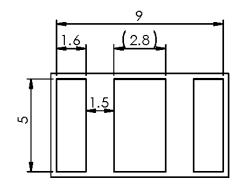
Marking, blue negative

EPCOS
230 YY O
230 - Nominal voltage
YY - Year of production
O - Non radioactive

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm







recommended pad outline

tin-plated

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

²⁾ In ionized mode

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

⁶⁾ Total current through center electrode, same value through tip respectively ring electrode

⁷⁾ Total current from ring to tip electrode

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

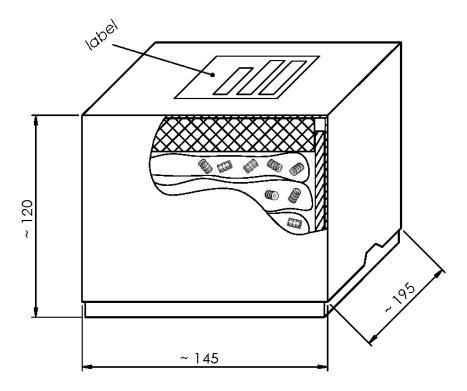


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Ordering code and packing advice

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



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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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