

Surge arrester

3-electrode arrester

Series/Type: T33-A230X

Ordering code: B88069X9800B502

Version/Date: Issue 05 / 2013-05-08

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Surge arrester B88069X9800B502

3-electrode arrester T33-A230X

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) 3)		230	V	
	2)	± 20	%	
Impulse spark-over vo	Itage 3)	400	.,	
at 100 V/µs - for 99% of measured values		< 400	V	
	 typical values of distribution 	< 350	V	
at 1 kV/µs - for 99% of measured values		< 450	V	
- typical values of distribution		< 420	V	
Service life	4)			
10 operations		10	Α	
1 operation	50 Hz; 0.18 s (9 c		Α	
10 operations	[5× (+) & 5× (–)] 8/20 µs 4)	10	kA	
1 operation	8/20 µs ⁴⁾	10	kA	
1 operation	10/350 µs ⁴⁾	2	kA	
Insulation resistance at 100 V _{DC} ³⁾		> 10	$G\Omega$	
Capacitance at 1 MHz ³⁾		< 1.5	pF	
Transverse delay time 5)		< 0.2	μs	
Arc voltage at 1 A		~ 30	V	
Glow to arc transition current		~ 1	Α	
Glow voltage		~ 200	V	
Weight		~ 1.4	g	
Operation and storage temperature		-40 + 90	°C	
Climatic category (IEC 60068-1)		40/ 90/ 21	40/ 90/ 21	
Marking, blue negative		YY - Year of prod	230 YY O 230 - Nominal voltage YY - Year of production	

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

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

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²⁾ In ionized mode

Tip or ring electrode to center electrode

Total current through center electrode, half value through tip respectively ring electrode.

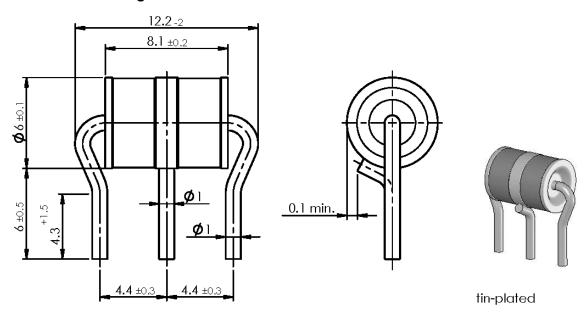
³⁾ Test according to ITU-T Rec. K.12



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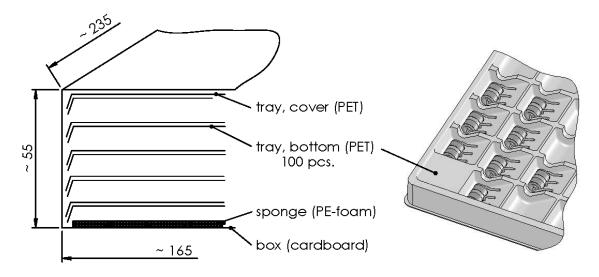
3-electrode arrester T33-A230X

Dimensional drawing in mm



Ordering code and packing advice

B88069X9800**B502** = 500 pcs. on trays



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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Тел: +7 (812) 336 43 04 (многоканальный) Email: org@lifeelectronics.ru