

# Surge arrester

3-electrode arrester

Series/Type: T33-A230X

Ordering code: B88069X9800B502

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

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3-electrode arrester T33-A230X

Features	Applications
<ul><li>Very small size</li></ul>	<ul><li>Line protection</li></ul>
<ul><li>Extremely fast response time</li></ul>	<ul><li>Station protection</li></ul>
<ul><li>High current rating</li></ul>	Base stations
<ul><li>Stable performance over life</li></ul>	
<ul><li>Extremely low capacitance</li></ul>	
<ul><li>High insulation resistance</li></ul>	
<ul><li>RoHS-compatible</li></ul>	

### **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	
	<ul> <li>typical values of distribution</li> </ul>	< 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 <sup>4)</sup>	10	kA	
1 operation	10/350 µs <sup>4)</sup>	2	kA	
Insulation resistance at 100 V <sub>DC</sub> <sup>3)</sup>		> 10	$G\Omega$	
Capacitance at 1 MHz <sup>3)</sup>		< 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 <b>+</b> 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	

<sup>1)</sup> 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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<sup>2)</sup> In ionized mode

Tip or ring electrode to center electrode

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

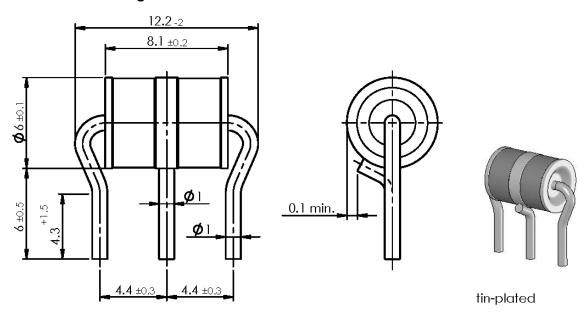
<sup>3)</sup> Test according to ITU-T Rec. K.12



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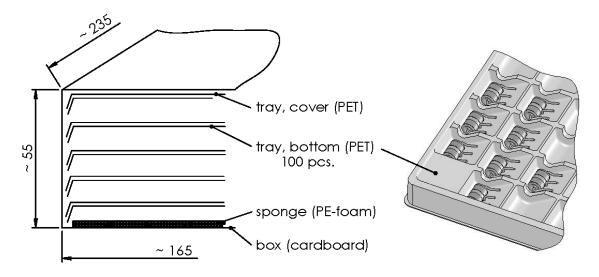
3-electrode arrester T33-A230X

#### 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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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: http://oceanchips.ru/

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А