

# Surge arrester

3-electrode arrester

Series/Type: Ordering code: T23-A350X

B88069X7200B502

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3-electrode arrester T23-A350X

#### **Features**

- Standard size
- Fast response time
- Very 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 volt	age 1) 2) 3)		350	V
Tolerance			±20	%
Min.			280	V
Max.			420	V
Impulse spark-ove	r voltage 3)			
at 100 V/µs - for 99% of measured values			< 650	V
	<ul> <li>typical values</li> </ul>		< 550	V
• • • • • • • • • • • • • • • • • • •		easured values	< 700	V
	- typical values	of distribution	< 600	V
Service life		4)		
10 opera		50 Hz; 1 s <sup>4)</sup>	10	Α
1 opera		50 Hz; 0.18 s (9 cycl.) 4)	50	Α
10 opera		8/20 µs <sup>4)</sup>	20	kA
1 opera	ition	8/20 μs <sup>4)</sup>	25	kA
5 opera	tions	10/250 μs <sup>4)</sup>	5	kA
1 opera	ition	10/350 μs <sup>4)</sup>	5	kA
300 opera	tions	5/320 μs <sup>4) 5)</sup>	200	А
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 6)			< 0.2	μs
Arc voltage at 1 A			~ 35	V
Glow to arc transition current			< 1	Α
Glow voltage			~ 200	V
Weight			~ 2.2	g
Operation and storage temperature			-40 <b>+</b> 125	°C
Climatic category (IEC 60068-1)			40/125/21	
Marking, blue negative			EPCOS 350 YY O 350 - Nominal voltage YY - Year of production O - Non radioactive	
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### 3-electrode arrester T23-A350X

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



UL 497B (E163070)

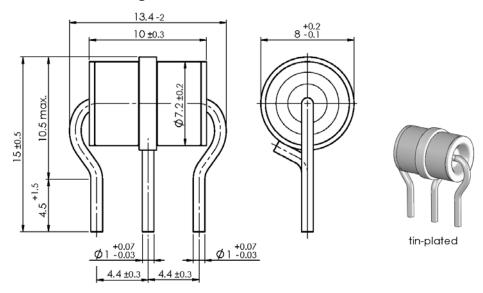
2) In ionized mode

Certifications

- 3) Tip or ring electrode to center electrode
- <sup>4)</sup> Total current through center electrode, half value through tip respectively ring electrode.
- <sup>5)</sup> Test generator 4 kV, 10/700  $\mu$ s, 40  $\Omega$
- 6) Test according to ITU-T Rec. K.12

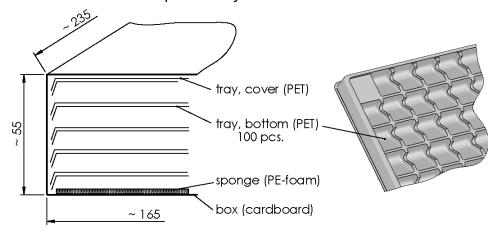
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

### Dimensional drawing in mm



# Ordering code and packing advice

B88069X7200**B502** = 500 pcs. on trays



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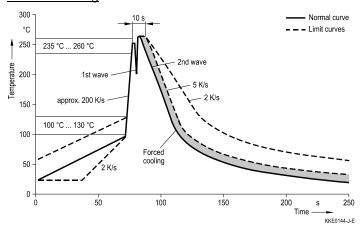


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### Soldering parameter

#### Wave soldering



Wave profile features	Pb-free assembly	
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7	
Solder bath temperature	263 (±3) °C	
Dwell time	<3s	

Soldering profile applied to a single soldering process.

### **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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