

Surge arrester

3-electrode arrester

Series/Type: T80-A90X

Ordering code: B88069X8360****

Date: 2015-09-18

Version: 06

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Surge arrester B88069X8360****

3-electrode arrester T80-A90X

Features

- Standard size
- Very fast response time
- Very high current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Base stations
- Line protection
- Station protection

Electrical specifications

DC spark-over voltage 1) 2) 3)		90 ±20	V %
Impulse spark-over voltage 3)			
at 100 V/µs - for 99% of measured values - typical values of distribution		< 400 < 300	V
• • • • • • • • • • • • • • • • • • •	at 1 kV/µs - for 99% of measured values - typical values of distribution		V
Service life			
10 operations1 operation	50 Hz; 1 s ⁴⁾ 50 Hz; 0.18 s (9 cycl.) ⁴⁾	10 40	A A
10 operations [5× (+) & 5× (-)] 1 operation	8/20 µs ⁴⁾ 8/20 µs ⁴⁾	10 15	kA kA
1 operation 300 operations	10/350 μs ⁴⁾ 10/1000 μs ⁴⁾	2 200	kA A
Insulation resistance at 50 V _{DC} 3)	10,1000 μο	> 10	GΩ
Capacitance at 1 MHz ³⁾		< 1.5	pF
Transverse delay time 5)		< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 15 < 0.5 ~ 70	V A V
Weight		~ 2	g
Operation and storage temperature		-40 + 90	°C
Climatic category (IEC 60068-1)		40/090/21	
Marking, blue negative		EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	
Certifications		UL 497B (E163070)	<i>PL</i>

Remarks on next page

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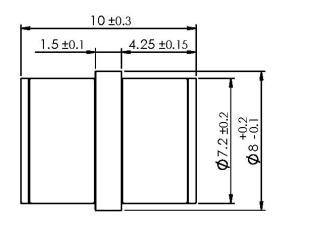
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3-electrode arrester T80-A90X

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Tip or ring electrode to center electrode
- ⁴⁾ Total current through center electrode, half value through tip respectively ring electrode.
- 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

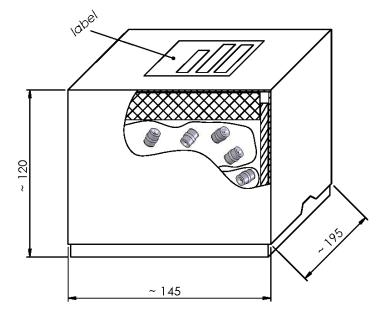




nickel-plated

Ordering code and packing advice

B88069X8360**C203** = 2000 pcs. in container



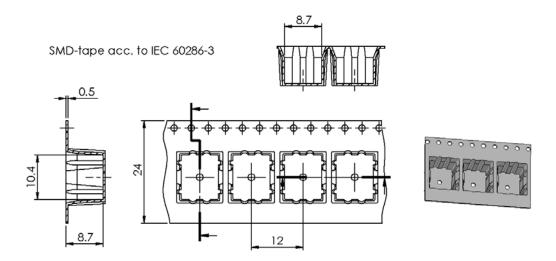
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3-electrode arrester T80-A90X

B88069X8360**T502** = SMD-tape with 500 pcs.



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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