

3-electrode arrester

Series/Type: Ordering code:	T83-A90X B88069X8300****	
Date:	2019-08-23	
Version:	09	

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T83-A90X

B88069X8300****

Surge arrester

3-electrode arrester

Features

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

Applications

- Telecommunications
- Line protection
- Base station protection

DC spark-over voltage 1) 2) 3)		90	V
Tolerance		±20	%
Min.		72	V
Max.	108	V	
Impulse spark-over voltage 3)			
at 100 V/µs - for 99% of measured values		< 400	V
- typical values of distribution		< 300	V
at 1 kV/µs - for 99% of measured values		< 550	V
- typical values of distribution		< 500	V
Service life			
10 operations	50 Hz; 1 s ⁴⁾	10	Α
1 operation	50 Hz; 0.18 s (9 cycl.) $^{4)}$	40	Α
10 operations [5× (+) & 5>	(-)] 8/20 μs ⁴⁾	10	kA
1 operation	8/20 μs ⁴⁾	15	kA
1 operation	10/350 μs ⁴⁾	2	kA
300 operations [150× (+) &	150× (–)] 10/1000 μs ⁴⁾	200	А
Insulation resistance at 50 V_{DC} 3)		> 10	GΩ
Capacitance at 1 MHz 3)		< 1.5	pF
Transverse delay time 5)		< 0.2	μs
Arc voltage at 1 A		~ 15	V
Glow to arc transition current		< 0.5	Α
Glow voltage		~ 70	V
Weight		~ 1.4	g
Operation and storage temperature	9	-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	•
Marking, red negative		EPCOS 90 YY O 90 - Nominal vo YY - Year of pro	oduction
Certifications		O - Non radioa UL 497B (E1630	
		00 4370 (01030)	

Remarks on next page

PPD AB PD / PPD AB PM



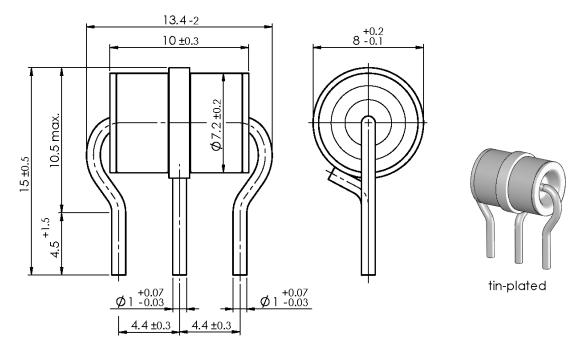
3-electrode arrester

B88069X8300**** T83-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.
- ⁵⁾ Test according to ITU-T Rec. K.12

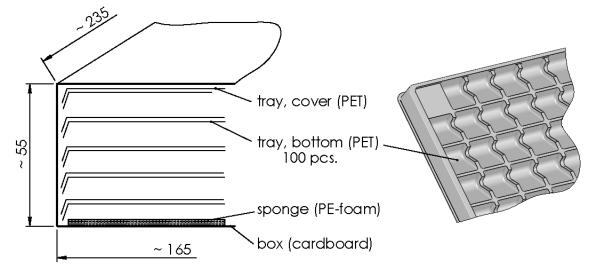
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

B88069X8300**B502** = 500 pcs. on trays



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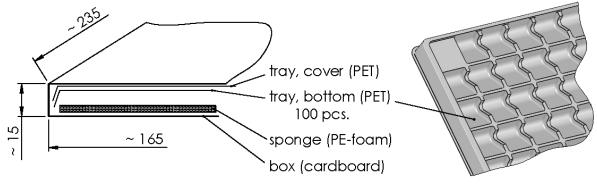


3-electrode arrester

B88069X8300****

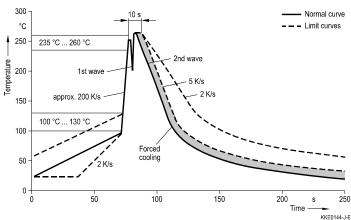
T83-A90X

B88069X8300**B102** = 100 pcs. on trays



Soldering parameter





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

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.

PPD AB PD / PPD AB PM



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T83-A90X

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