

3-electrode arrester

T83-A90X B88069X8300****		
2015-09-25 07		

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3-electrode arrester

B88069X8300****

T83-A90X

Features

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

Electrical specifications

Applications

- Telecommunications
- Line protection
- Base station protection

DC spark-over voltage ^{1) 2) 3)}			90 ±20	V %
Impulse spark-over ve	oltage 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 measur			< 550	V
	 typical values of 	distribution	< 500	V
Service life				
10 operation	S	50 Hz; 1 s ⁴⁾	10	А
1 operation		50 Hz; 0.18 s (9 cycl.) $^{4)}$	40	А
10 operation	s [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	< 0.5	A		
Glow voltage			~ 70	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 vo YY - Year of pro O - Non radioa	oduction
Certifications			UL 497B (E1630	70) 🔊
Remarks on next page				

Remarks on next page

PPD AB PD / PPD AB PM



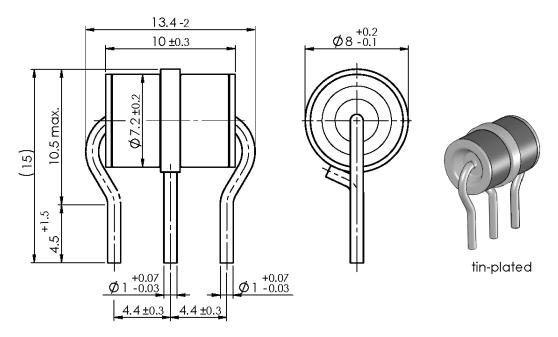
3-electrode arrester

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

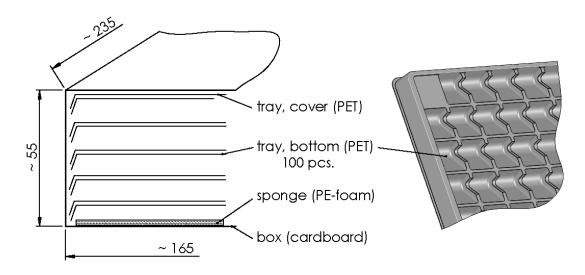
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

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



PPD AB PD / PPD AB PM

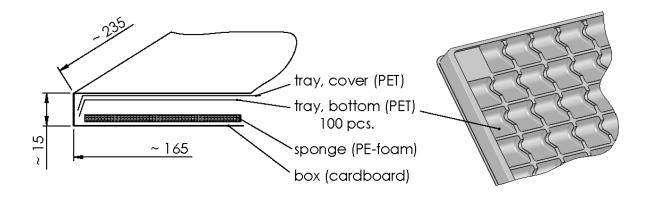


3-electrode arrester

B88069X8300**** T83-A90X

Ordering code and packing advice

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



②TDK

Surge arrester

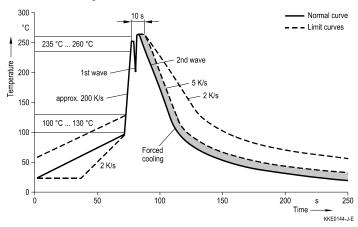
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Soldering parameter

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	< 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.

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