Surge arrester

3-electrode arrester

Series/Type:	**T30-A230X**
Ordering code:	**B88069X3060C253**
Date:	2026-04-01
Version:	08

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Features

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

Applications

- Line protection
- Station protection
- Base station

Electrical specifications

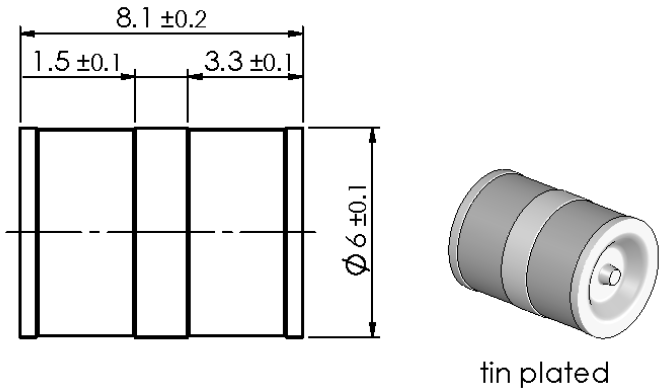
DC spark-over voltage [1) 2) 4)]		230 ±20	V %
Impulse spark-over voltage [3)]			
at 100 V/µs	- for 99% of measured values	< 400	V
	- typical values of distribution	< 380	V
at 1 kV/µs	- for 99% of measured values	< 450	V
	- typical values of distribution	< 430	V
Service life			
5 operations	50 Hz; 1 s [5)]	10	A
10 operations	50 Hz; 1 s [5)]	10	A
1 operation	50 Hz; 0.18 s (9 cycl.) [5)]	30	A
10 operation[5× (+) & 5× (–)]	8/20 µs [5)]	10	kA
1 operation	10/350 µs [5)]	5	kA
Insulation resistance at 100 V_{DC} [4)]		> 10	GΩ
Capacitance at 1 MHz [3)]		< 1.5	pF
Transverse delay time [3)]		< 0.2	µs
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 30 < 1 ~ 200	V A V
Weight		~ 1.4	g
Operation and storage temperature		–40 ... +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue negative		**TDK** **230 YY** 230 - Nominal voltage YY - Year of production	
Certifications		UL 497B (E163070)	

Remarks on next page

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test according to ITU-T Rec.K.12
4) Tip or ring electrode to center electrode
5) Total current through center electrode, half value through tip respectively ring electrode.

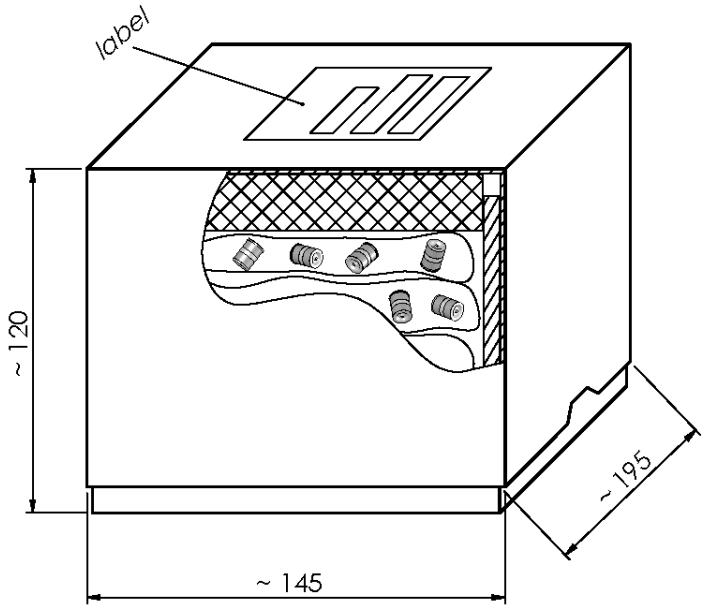
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Dimensional drawing in mm



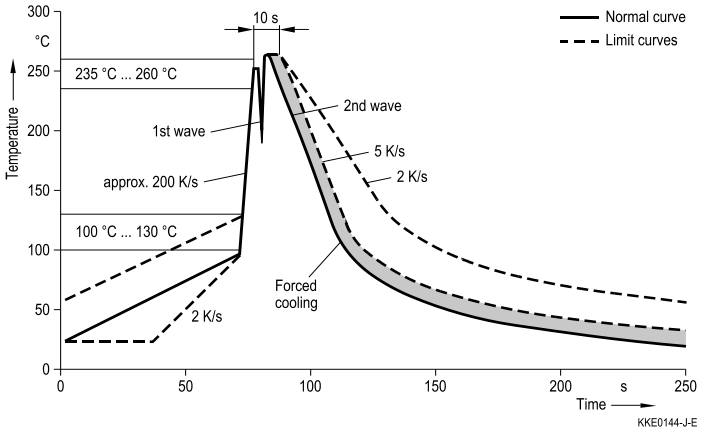
Ordering code and packing advice

*B88069X3060**C253** = 2500 pcs. in container (5 PE-bags á 500 pcs.)*



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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