

Surge arrester

3-electrode arrester

Series/Type: T30-A90X Ordering code: B88069X3030C253

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T30-A90X

B88069X3030C253

Surge arrester

3-electrode arrester

Features

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

Electrical specifications

Applications

- Modem
- Data lines

Electrical s	pecifications		1	
DC spark-over voltage ^{1) 2) 3)}			90	V
-	erance	±20	%	
Mir		72	V	
Ma	Х.	108	V	
	urk-over voltage 3)			
at 1	I kV/µs - for 99% of measur	< 500	V	
	- typical values of di	< 480	V	
Service life				
10	operations	50 Hz; 1 s ⁴⁾	10	A
1	operation	50 Hz; 0.18 s (9 cycl.) ⁴⁾	30	A
10	operations	50 Hz; 1 s (a-c) ⁴⁾	5	A
10	operations [5× (+) & 5× (–)]	8/20 µs(a-c) ⁴⁾	5	kA
10	operation[5× (+) & 5× (–)]	8/20 µs4)	10	kA
1	operation	10/350 µs ⁴⁾	2	kA
300	operations [150x (+) & 150x (-)]	10/1000 µs ⁴⁾	200	А
Insulation re	esistance at 50 V_{DC} ³⁾	> 10	GΩ	
Capacitance	e at 1 MHz ³⁾	< 1.5	pF	
Transverse delay time ⁵⁾			< 0.2	μs
Arc voltage	at 1 A		~ 10	V
Glow to arc	transition current	< 1	А	
Glow voltage			~ 60	V
Weight			~ 1.4	g
Temperature				
sto	rage	–55 +125	°C	
ope	eration	-40 +125	°C	
Climatic category (IEC 60068-1)			40/125/21	•

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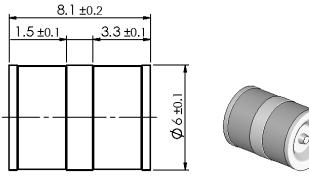
T30-A90X

Marking, blue negative	EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive
Certifications	UL 497B (E163070)

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

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

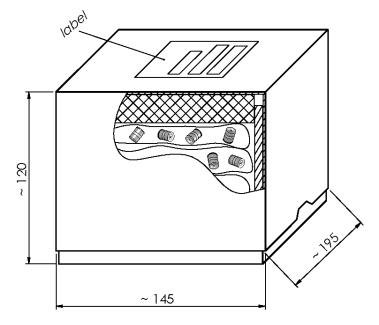
Dimensional drawing in mm



tin plated

Ordering code and packing advice

B88069X3030C253 = 2500 pcs. in container (5 PE-bags á 500 pcs.)



PPD AB PD / PPD AB PM



Surge arrester

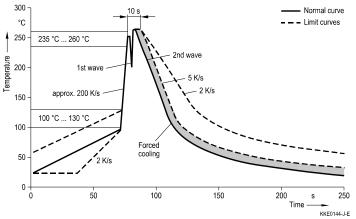
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Soldering parameter

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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