

Surge arrester

2-electrode arrester

Version:

 Series/Type:
 EM400XG

 Ordering code:
 B88069X0820T502

 Date:
 2019-07-19

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EM400XG

Features

- Small size
- Fast response time
- High current handling capability
- Stable performance over life
- Low capacitance and insertion loss
- High insulation resistance
- RoHS-compatible

Applications

- Power supplies
- Antenna protection
- Air condition
- Modem
- Consumer electronics
- Dataline protection

Electrical specifications			
DC spark-over voltage ^{1) 2)} Tolerance Min. Max.		400 ±20 320 480	V % V V
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution at 1 kV/µs - for 99% of measured values - typical values of distribution		< 800 < 750 < 900 < 850	V V V V
Service life			
10 operations	50 Hz, 1 s	2.5	А
1 operation	50 Hz, 0.18 s (9 cycles)	5	А
10 operations [5× (+) & 5× (-)]	8/20 μs	2.5	kA
1 operation	8/20 μs	5	kA
1 operation	10/350 μs	0.5	kA
Insulation resistance at 100 V_{DC}		> 1	GΩ
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 10 < 0.3 ~ 60	V A V
Weight		~ 1	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red positive		EPCOS EM 400 YY OEM- Series400- Nominal voltageYY- Year of productionO- Non radioactive	
Certification		UL 497B (E163070)	9 L

Remarks on next page

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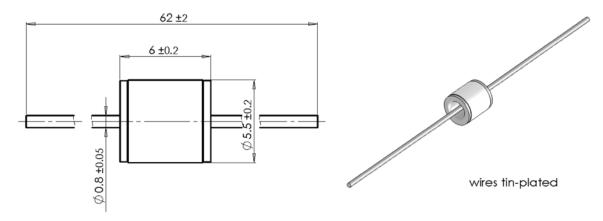
2-electrode arrester

1) At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

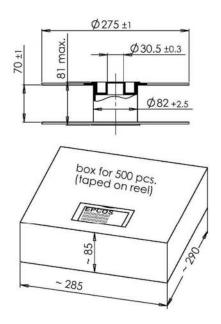
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm



Ordering codes and packing advices

B88069X0820**T502** = 500 pcs. on tape and reel



PPD AB PD / PPD AB PM

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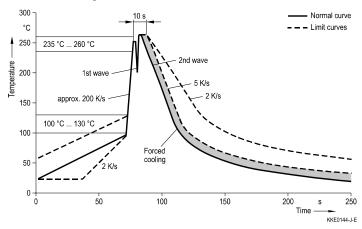
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Soldering parameter

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.
- 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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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