

Surge arrester

2-electrode arrester

Series/Type:EM400XOrdering code:B88069X0200S102Date:2010.07.10

Date: Version: 2019-07-19 07

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Surge arrester

2-electrode arrester

B88069X0200S102

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

DC spark-over voltage ^{1) 2)} Tolerance Min. Max. 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	400 ±20 320 480 < 800 < 750 < 900 < 850 2.5	V % V V V V V V
at 100 V/µs - for 99% of measured values - typical values of distribution	< 750 < 900 < 850 2.5	V V V
- typical values of distribution		
Service life 10 operations 50 Hz, 1 s 1 operation 50 Hz, 0.18 s (9 cycles) 10 operations [5x (+) & 5x (-)] 8/20 μs 1 operation 8/20 μs 1 operation 10/350 μs	5 2.5 5 0.5	A A kA 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

②TDK

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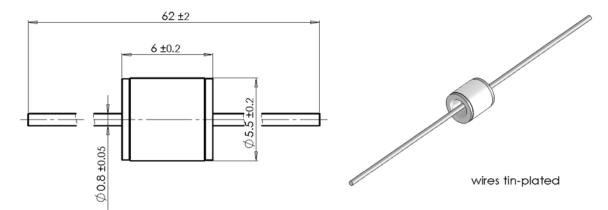
B88069X0200S102 EM400X

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

²⁾ In ionized mode

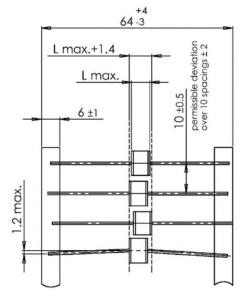
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm

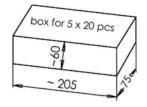


Ordering codes and packing advices

B88069X0200**S102** = 100 pcs. on 5 taped stripes



tape acc. to IEC 60286-1



PPD AB PD / PPD AB PM

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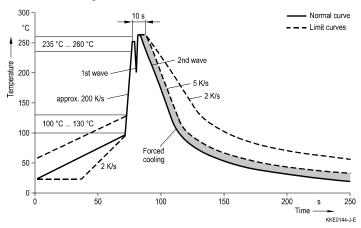
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Soldering parameter

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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