

Surge arrester

2-electrode arrester

Series/Type: Ordering code:	EM3000XS B88069X4231****
Date:	2016-04-28
Version:	05

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Surge arrester

2-electrode arrester

Features

- Small size
- Fast response time
- Stable performance over service life
- Low capacitance
- High insulation resistance
- RoHS-compatible

Electrical specifications

Applications

- Modem
- XDSL-splitter
- Station protection
- Consumer electronics
- Tuner

DC spark-over voltage ^{1) 2)} 3000 Tolerance ±20 Min. 2400 3600 Max. Impulse spark-over voltage at 100 V/µs - for 99 % of measured values < 3800 - typical values of distribution < 3600 - for 99 % of measured values at 1 kV/µs < 4000 - typical values of distribution < 3800 Service life 10 operations 50 Hz; 1 s 1 300 operations 100 8/20 µs 10 operations 8/20 µs 2 8/20 µs 5 1 operation Insulation resistance at 100 V_{DC} > 1 Capacitance at 1 MHz < 1 Arc voltage at 1 A ~ 35 < 0.7 Glow to arc transition current Glow voltage at 0.1 A ~ 170 AC withstand voltage 1 min 1250 1 s 1500 ~ 1 Weight **Operation temperature** -40 ... +125 Recommended storage - temperature +5 ... +35 - humidity 45 ... 80

Continued on next page

- period

Climatic category (IEC 60068-1)

PPD AB PD / PPD AB PM

≤ 2

40/125/21

EM3000XS

V

%

V

V

V

V

V

V

А

А

kΑ

kΑ

GΩ pF

V

А

V

V

V

g °C

°C

%

years

B88069X4231****



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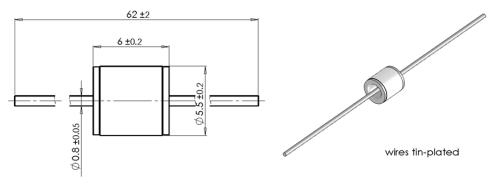
Marking, blue positive	EPCOSEM 3000 YY OEM- Series3000- Nominal voltageYY- Year of productionO- Non radioactive
Certifications	UL 1449 (E319264)

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

²⁾ In ionized mode

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

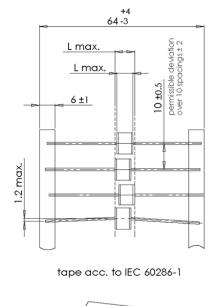
Dimensional drawing in mm

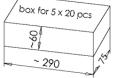


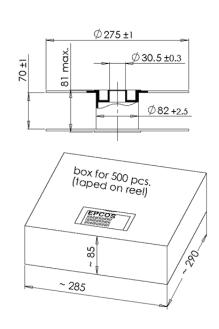
Ordering codes and packing advices

B88069X4231**S102** = 100 pcs. on 5 taped stripes

B88069X4231**T502** = 500 pcs. on tape & reel







PPD AB PD / PPD AB PM

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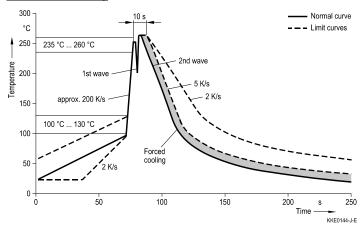
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Soldering parameter

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.
- Electromagnetic fields and ionizing radiation may affect the electrical characteristics of the arrester. The impact of such effects (inductive and capacitive field distortion from adjacent components) must be avoided by appropriate circuit design measures.
- 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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