

Surge arrester

2-electrode arrester

 Series/Type:
 M51-A230X

 Ordering code:
 B88069X2930C102

 Version/Date:
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Features

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

Electrical specifications

Applications Branch exchange

- Line protection
- ÷. Subscriber protection
- Alarm system

DC spark-over voltage ^{1) 2)}	230	V
	± 20	%
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution	< 550 < 500	V V
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 650 < 600	V V
$\begin{array}{c c} \text{Service life} \\ 10 \text{ operations} & 50 \text{ Hz}, 1 \text{ s} \\ 1 \text{ operation} & 50 \text{ Hz}, 0.18 \text{ s} (9 \text{ cycles}) \\ 10 \text{ operations} & 8/20 \ \mu\text{s} \\ 1 \text{ operation} & 8/20 \ \mu\text{s}^{-3)} \\ 1 \text{ operation} & 10/350 \ \mu\text{s} \end{array}$	5 10 5 10 0.5	A A kA 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	~ 15 ~ 0.5 ~ 60	V A V
Weight	~ 1	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	IEC 60068-1) 40/ 90/ 21	
Marking, blue negative	EPCOS 230 YY O230- Nominal voltageYY- Year of productionO- Non radioactive	

1) At delivery AQL 0.65 level II, DIN ISO 2859 2)

In ionized mode

3) After service life DC spark-over voltage may exceed initial values but device will remain in a safe mode

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



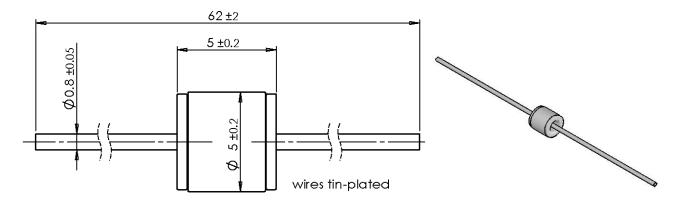
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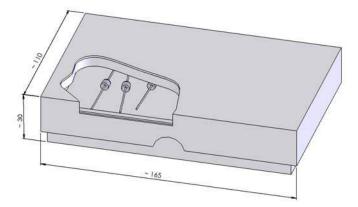
M51-A230X

Dimensional drawing in mm



Ordering code and packing advice

*B88069X2930***C102** = 100 pcs. in container



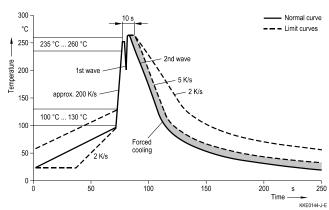
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Soldering parameter

Wave soldering



Soldering profile applied to a single soldering process.

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

Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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