



Surge arrester

2-electrode arrester

Series/Type: M51-A800XP
Ordering code: B88069X4781xxxx ^{a)}
Version/Date: Issue 04 / 2008-01-17

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Features	Applications
<ul style="list-style-type: none"> ▪ Small size ▪ Very fast response time ▪ Stable performance over life ▪ High insulation resistance ▪ RoHS-compatible 	<ul style="list-style-type: none"> ▪ AC power lines ▪ Class II (class C) - requirements

Electrical specifications

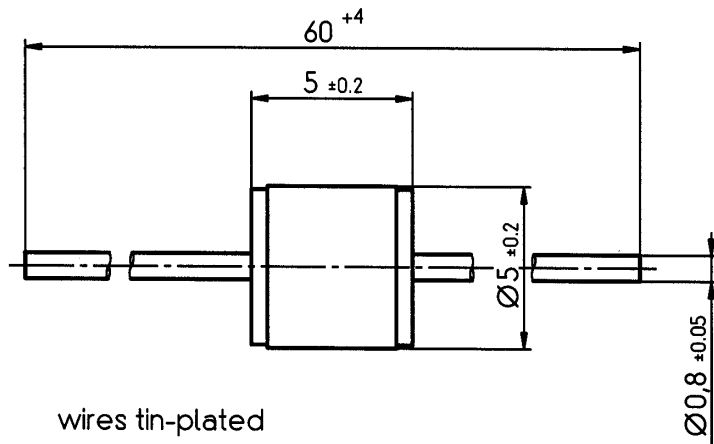
DC spark-over voltage ^{1) 2)}	> 600	V
Impulse spark-over voltage		
- at 1 kV/μs - for 99 % of measured values	< 1200	V
- typical values of distribution	< 1100	V
- at 5 kV/μs - for 99 % of measured values	< 1500	V
- typical values of distribution	< 1200	V
- at 1.2/50 μs, 6 kV, for 99 % of measured values ³⁾	< 1500	V
Response time	< 100	ns
- typical values	< 20	ns
Insulation resistance at 100 V _{dc}	> 1	GΩ
Class II according to EN 61643-11		
Max. continuous operating voltage at 50/60 Hz	U _c	255 V _{rms}
Nominal discharge current 8/20 μs	I _n	3 kA
Maximum discharge current 8/20 μs	I _{max}	3 kA
Follow current at 50/60 Hz	I _f	5 A _{rms}
Weight	~ 3	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue positive	EPCOS 800 YY O 800 - Nominal voltage YY - Year of production O - Non radioactive	

^{a)} xxxx = S102 (100 pcs on 5 taped stripes)
 = T502 (500 pcs on tape and reel)

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

²⁾ In ionized mode

³⁾ Test in accordance with EN 61 643-11

Dimensional drawing


Not to scale

Dimensions in mm

Non controlled document

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.
- Damaged surge arresters must not be re-used.

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
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