



Surge arrester

2-electrode arrester

Series/Type: V13-A500XN
Ordering code: B88069X6940C251
Issue/Date: Issue 09 / 2008-01-17

Features	Applications
<ul style="list-style-type: none"> ▪ Standard size ▪ Maximum current rating ▪ Fast response time ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ RoHS-compatible 	<ul style="list-style-type: none"> ▪ AC power lines ▪ Class I and class II - requirements

Electrical specifications

DC spark-over voltage ^{1) 2)}		500 ... 850	V
Impulse spark-over voltage ⁴⁾ - at 1.2/50 μ s, 6 kV, for 99 % of measured values		< 1300	V
Response time - typical values		< 100 < 20	ns ns
Insulation resistance at 100 V _{dc}		> 1	G Ω
Class I according to EN 61643-11			
Max. continuous operating voltage at 50/60 Hz	U _c	255	V _{rms}
Nominal discharge current 8/20 μ s	I _n	40	kA
Impulse current 10/350 μ s	I _{imp}	12	kA
Follow current at 50/60 Hz	I _f	100	A _{rms}
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 μ s	I _n	40	kA
Maximum discharge current 8/20 μ s	I _{max}	60	kA
Follow current at 50/60 Hz	I _f	100	A _{rms}
AC discharge current (TOV ³⁾ at 1200 V) 1 operation 50 Hz, 0.2 s		300	A
Weight		~ 6.5	g
Operation and storage temperature		-40 ... +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, black positive		EPCOS 500 YY ON 500 - Nominal voltage YY - Year of production O - Non radioactive N - Series	

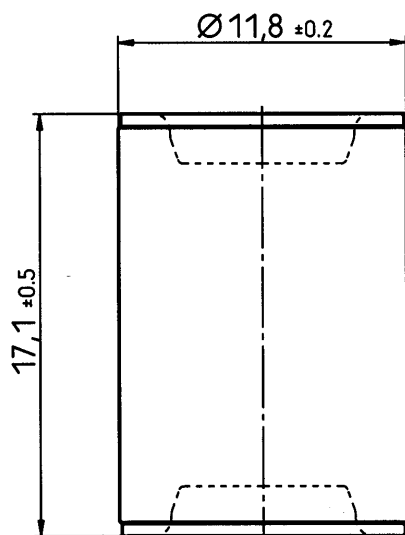
¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

³⁾ TOV – Temporary over voltage

⁴⁾ Values after load: < 1500 V

Dimensional drawing



nickel-plated

Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- 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:

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