



Surge arrester

2-electrode arrester

Series/Type: N81-A800XS
Ordering code: B88069X7481B502
Version/Date: Issue 01 / 2008-02-25

Features	Applications
<ul style="list-style-type: none"> ▪ Standard size ▪ Fast response time ▪ High current rating ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ RoHS-compatible 	Devices in Railway systems for: <ul style="list-style-type: none"> ▪ Signal protection ▪ Data line protection ▪ AC/DC power supply protection

Electrical specifications

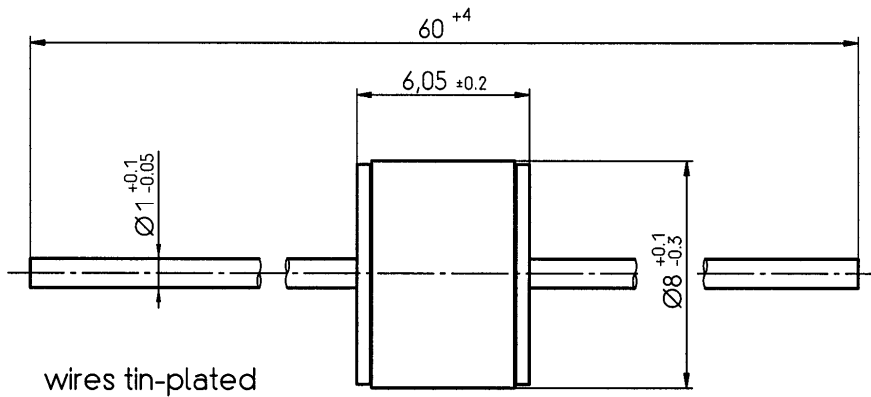
DC spark-over voltage ^{1) 2)}	800 ± 20	V %
Impulse spark-over voltage at 1 kV/μs - for 99 % of measured values	< 1500	V
Service life 5 operations 8/20 μs + 1 operation 8/20 μs	10 20	kA kA
Insulation resistance at 100 V _{dc}	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A	~ 22	V
Glow to arc transition current	~ 0.5	A
Glow voltage	~ 140	V
Weight	~ 2.5	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red positive	EPCOS 800 YY O 800 - Nominal voltage YY - Year of production O - Non radioactive	

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 DIN 57845/VDE0845

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.

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