



Surge arrester

2-electrode arrester

Series/Type: H38-E800XP
Ordering code: B88069X6821B101
Version/Date: Issue 02 / 2008-10-29

Features	Applications
<ul style="list-style-type: none"> ▪ Suitable for direct strikes ▪ Very fast response time ▪ Stable performance over life ▪ High insulation resistance ▪ RoHS-compatible 	<ul style="list-style-type: none"> ▪ AC power lines ▪ Class I (class B) - requirements

Electrical specifications

DC spark-over voltage ^{1) 2)}		> 600	V
Impulse spark-over voltage ³⁾ - at 1.2/50 μ s, 6kV, for 99 % of measured values		< 1500	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	100	kA
Impulse current 10/350 μ s	I _{imp}	100	kA
Follow current at 50/60 Hz	I _f	100	A _{rms}
AC discharge current (TOV ⁴⁾ 1 operation 50 Hz, 0.2 s		300	A
DC discharge current 1 operation 0.5 s		400	A
Weight		~ 100	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	

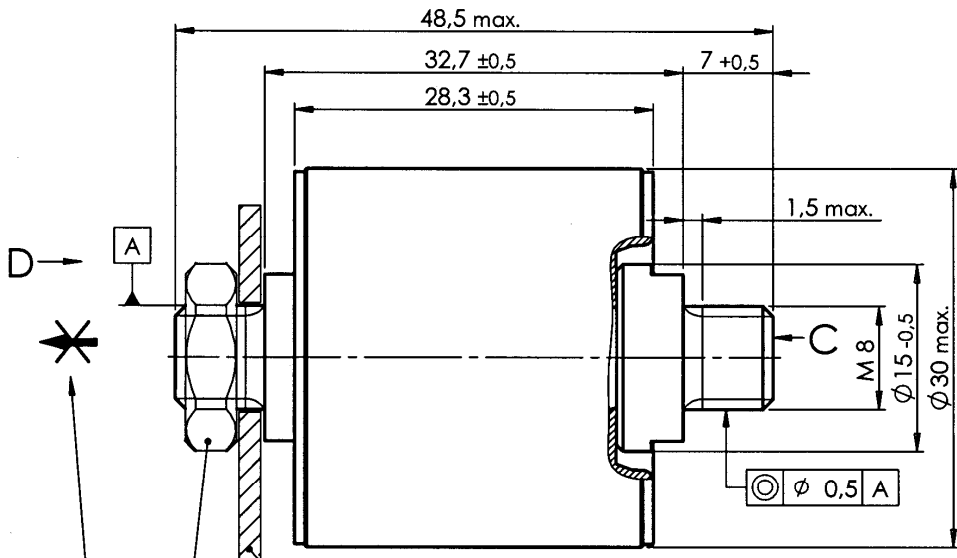
1) At delivery AQL 0.65 level II, DIN ISO 2859

2) In darkness w/o storage

3) Combination wave generator (2 Ω)

4) TOV – Temporary Over Voltage

Dimensional drawing



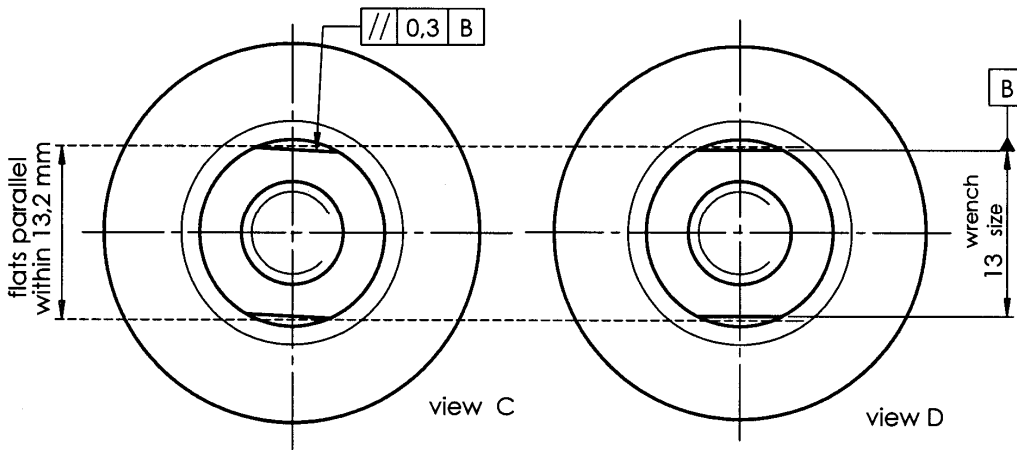
Not to scale

Dimensions in mm

Non controlled document

customer specific connection
 max. torque = 8 Nm counter-hold with 13mm wrench to minimize torque charge
 threads are **not** designed for tensile load

nickel-plated



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.

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