



## Surge arrester

2-electrode arrester

**Series/Type:** L18A-A3000XPD  
**Ordering code:** B88069X9471B122  
Version/Date: Issue 02 / 2010-09-10

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**Features**

- Very small size
- Suitable for direct strikes
- Very fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

**Applications**

- AC power line devices - class I and II
- Wind energy

**Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>		2700 ... 3900	V
Front of wave spark-over voltage <sup>3)</sup> - at 1.2/50 $\mu$ s, 6 kV		< 4500	V
Response time - typical values		< 100 < 20	ns ns
Insulation resistance at 1000 V <sub>DC</sub>		> 1	G $\Omega$
Capacitance at 1 MHz		< 6	pF
Class I <sup>5)</sup>			
Max. continuous operating voltage at 50/60 Hz	V <sub>c</sub>	1000	V <sub>rms</sub>
Nominal discharge current 8/20 $\mu$ s	I <sub>n</sub>	50	kA
Impulse current 10/350 $\mu$ s	I <sub>imp</sub>	35	kA
Class II <sup>5)</sup>			
Max. continuous operating voltage at 50/60 Hz	V <sub>c</sub>	1000	V <sub>rms</sub>
Nominal discharge current 8/20 $\mu$ s	I <sub>n</sub>	50	kA
Maximum discharge current 8/20 $\mu$ s	I <sub>max</sub>	100	kA
AC discharge current (TOV <sup>4)</sup> at 2000 V) 1 operation 50 Hz, 0.2 s		300	A
Weight		~ 50	g
Operation and storage temperature		-40 ... +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue positive		<b>EPCOS</b> <b>3000 YY O</b> 3000 - Nominal voltage YY - Year of production O - Non radioactive	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

<sup>2)</sup> In darkness w/o storage

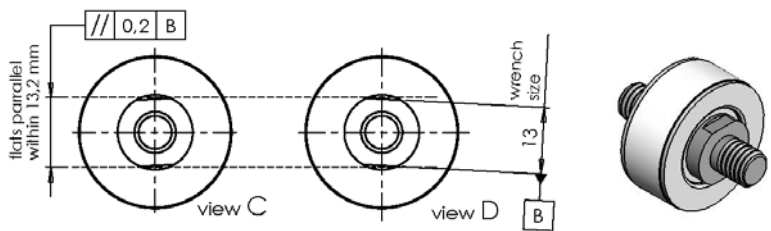
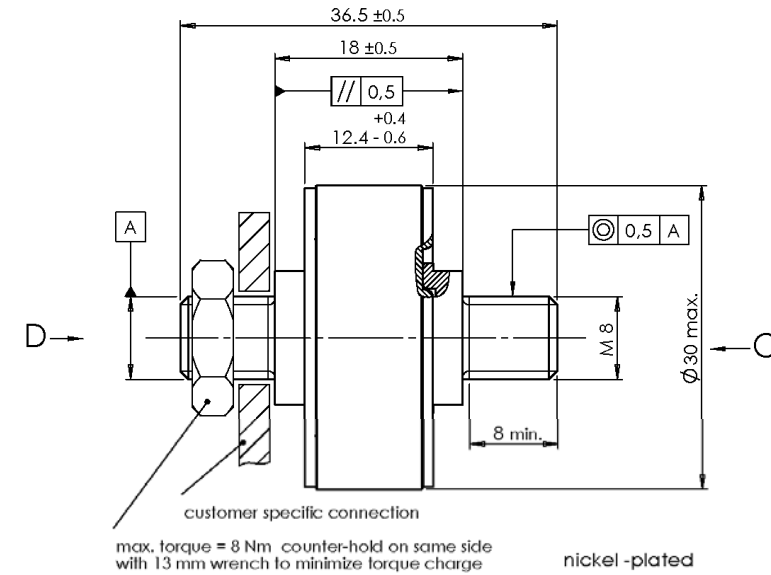
<sup>3)</sup> Arrester measured individually

<sup>4)</sup> TOV – Temporary over voltage

<sup>5)</sup> Test sequence in accordance with EN 61643-11.

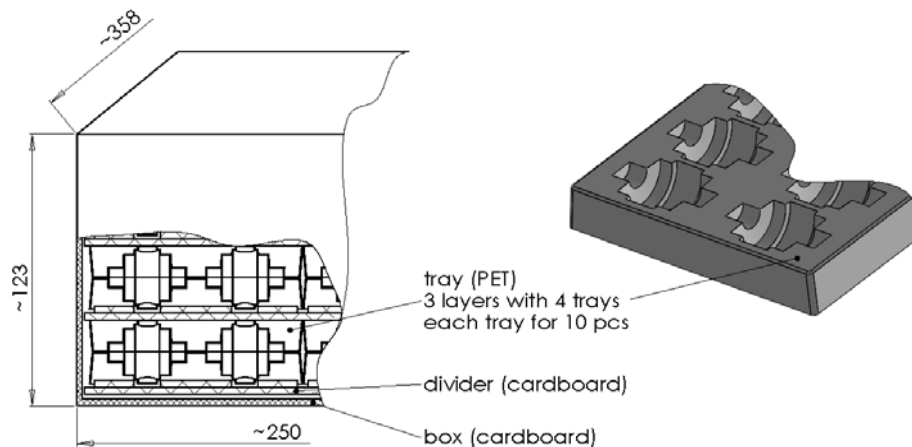
Application only in devices. Follow current has to be limited by an appropriate varistor in series.

**Dimensional drawing in mm**



**Ordering code and packing advice**

B88069X...B122 = 120 pcs on trays (10 pcs per tray)



**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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