Surge arrester

2-electrode arrester

Series/Type:	**V14-A500X**
Ordering code:	**B88069X6761B152**
Date:	2018-04-12
Version:	03

Features

- Standard size
- Maximum current rating
- Fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications

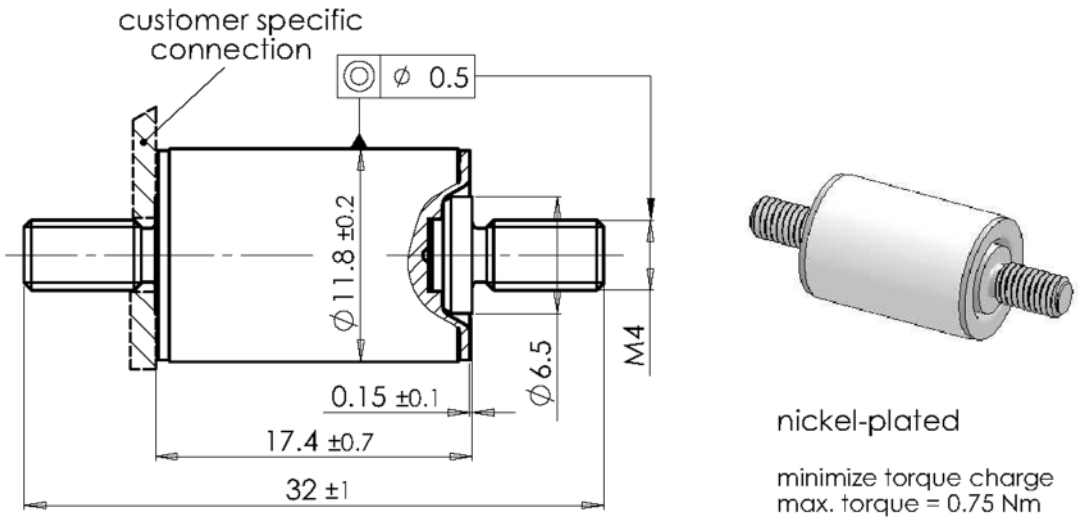
- AC power line N-PE application
- Class II – surge protection

Electrical specifications

DC spark-over voltage [1) 2)]		400 … 600	V
Impulse spark-over voltage			
at 100 V/µs [4)]	- for 99% of measured values	< 850	V
	- typical values of distribution	< 750	V
at 1 kV/µs [4)]	- for 99% of measured values	< 1000	V
	- typical values of distribution	< 900	V
at 5 kV/µs [5)]	- for 99% of measured values	< 1500	V
	- (wave 1.2/50µs; 6 kV		
Breakdown time		< 100	ns
- typical values		< 20	ns
Insulation resistance at 100 V_{DC}		> 1	GΩ
Class II according to IEC 61643-11			
Max. continuous operating voltage at 50/60 Hz	U_c	255	V
Nominal discharge current 8/20 µs	I_n	20	kA
Maximum discharge current 8/20 µs	I_{max}	40	kA
Follow current at 50/60 Hz	I_f	100	A
AC discharge current (TOV [3)] at 1200 V)			
1 operation 50 Hz, 0.2 s		300	A
Weight		~ 8	g
Operation and storage temperature		-40 ... +90	°C
Climatic category (IEC 60068-1)		40/090/21	
Marking, red positive		**EPCOS** **500 YY O** 500 - Nominal voltage Y - Year of production O - Non radioactive	

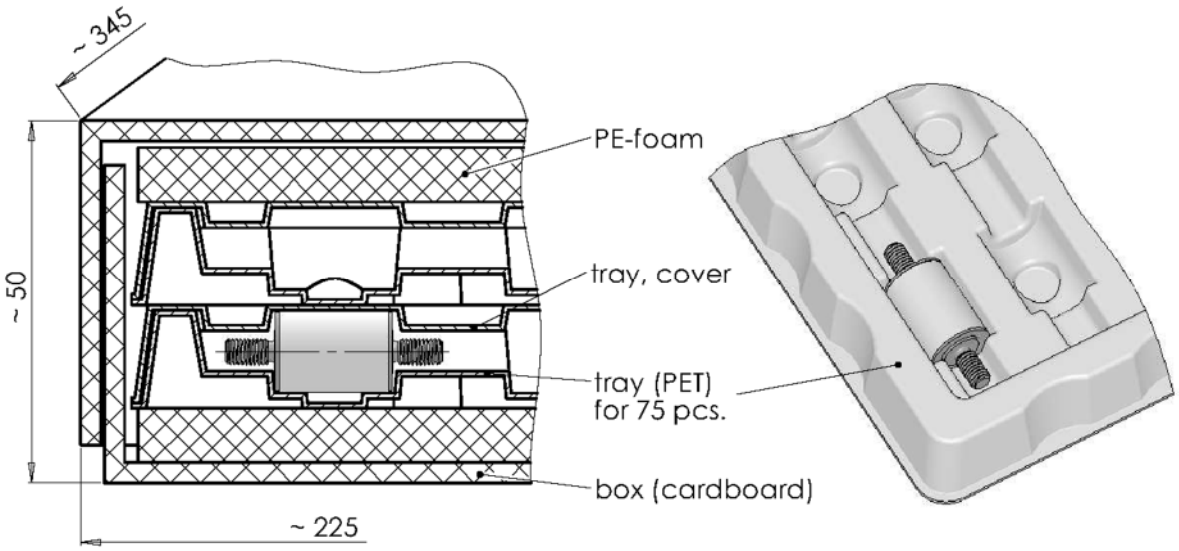
1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) TOV – Temporary over voltage
4) Unloaded
5) Same values before and after loading

Dimensional drawing in mm



Ordering code and packing advice

*B88069X6761**B152** = 150 pcs. on trays*



Cautions and warnings

- The follow current must be limited (see values on page 2) so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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