Surge arrester

Stacked surge arresters in casing

Series/Type:	**LN30M1-A1800AC-3C**
Ordering code:	**B88069X2963B161**
Date:	2016-02-04
Version:	05

Surge arrester — B88069X2963B161

Stacked surge arresters in casing — LN30M1-A1800AC-3C

Preliminary data

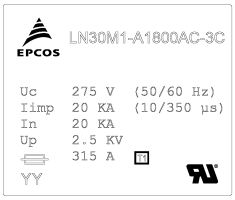
Features

- High self-extinguishing capability
- High follow current limitation capability
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications

- AC power line, phase-neutral
- Class I and class II – surge protection

Electrical specifications

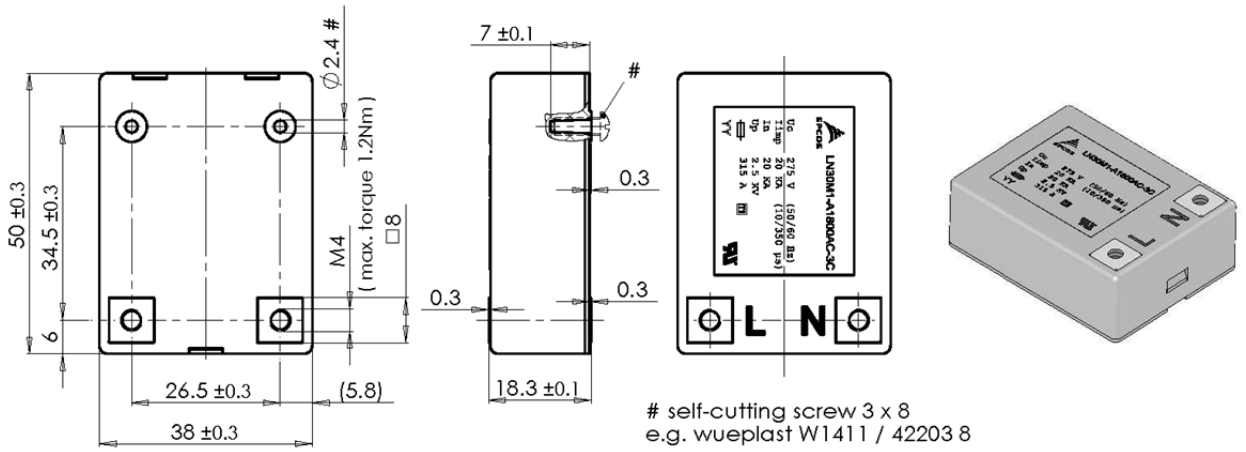
DC spark-over voltage [1]		> 600	V
Front of wave spark-over voltage - at 1.2/50 µs, 6 kV		< 2500	V
Breakdown time - typical values - for 99% of measured values		< 100 < 20	ns ns
Insulation resistance at 100 V_{DC}		> 10	GΩ
Class I according to IEC 61643-11			
Nominal operating voltage [2]	U_N	230	V
Max. continuous operating voltage [2]	U_c	275	V
Nominal discharge current 8/20 µs	I_n	25	kA
Impulse current 10/350 µs	I_{imp}	25	kA
Follow current extinguishing capability [3]	I_f	6	kA
Class II according to IEC 61643-11			
Nominal operating voltage [2]	U_N	230	V
Max. continuous operating voltage [2]	U_c	275	V
Nominal discharge current 8/20 µs	I_n	25	kA
Max. discharge current 8/20 µs	I_{max}	40	kA
Follow current extinguishing capability [3]	I_f	6	kA
Max. temporary overvoltage (max. 5 s) [2]	U_T	440	V
Connection cable cross section		> 10	mm²
Weight		~ 70	g
Operation and storage - temperature - humidity		 −40 ... +125 5 … 95	 °C %
Climatic category (IEC 60068-1)		40/125/21	
Label, black negative			
Certifications		UL 1449 (E319264)	

Remarks on next page

Preliminary data

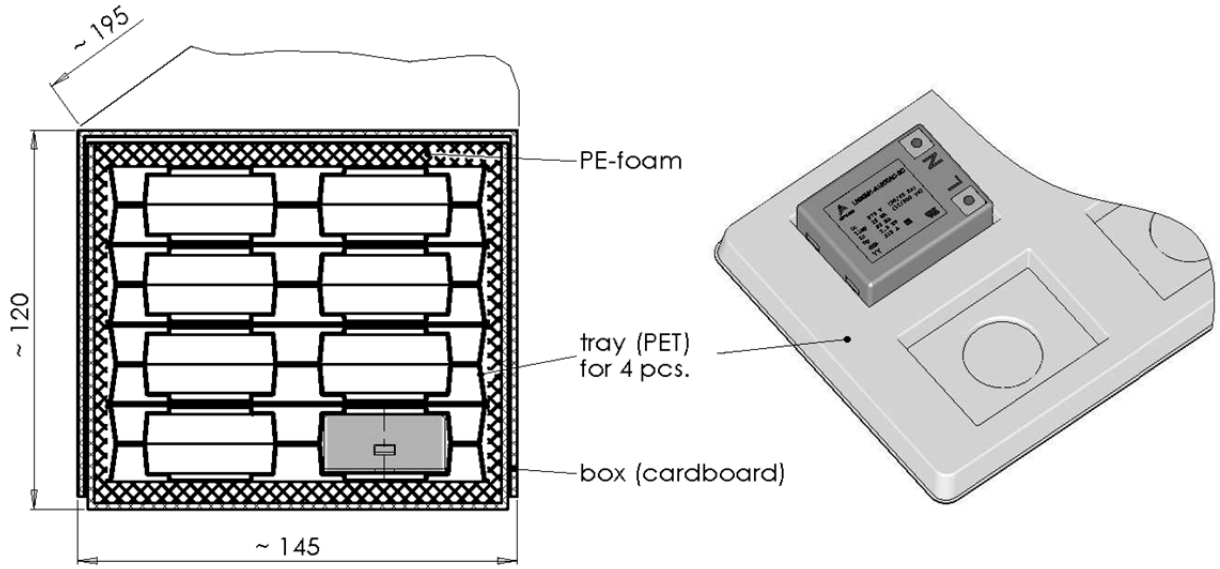
1) At delivery AQL 0.65 level II, DIN ISO 2859
2) At 48...62 Hz
3) Cut-off selectivity for 40 A NH-gG/gL circuit breakers is given.

Dimensional drawing for housing in mm



Ordering code and packing advice

*B88069X2963**B161** = 16 pcs. in trays*



Cautions and warnings

- The surge arrester can be used if the maximum expected follow current can be securely extinguished.
- 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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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