

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X5691C103
Manufacturer: TDK
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x5691c103.html>

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New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



Surge arrester

2-electrode arrester

Series/Type:	A80-A800XP
Ordering code:	B88069X5691C103
Date:	2026-04-01
Version:	13

Surge arrester

B88069X5691C103

2-electrode arrester

A80-A800XP

Features

- Very fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications

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

Electrical specifications

DC spark-over voltage ^{1) 2)}		> 600	V
Front of wave spark-over voltage - at 1.2/50 μ s, 6 kV, for 99% of measured values		< 1500	V
Breakdown time - typical values		< 100 < 20	ns ns
Insulation resistance at 100 V _{DC}		> 1	G Ω
Class I ³⁾			
Max. continuous operating voltage at 50/60 Hz	U _c	255	V
Nominal discharge current 8/20 μ s	I _n	10	kA
Impulse current 10/350 μ s	I _{imp}	500	A
Follow current at 50/60 Hz	I _f	100	A
Class II ³⁾			
Max. continuous operating voltage at 50/60 Hz	U _c	255	V
Nominal discharge current 8/20 μ s	I _n	10	kA
Maximum discharge current 8/20 μ s	I _{max}	20	kA
Follow current at 50/60 Hz	I _f	100	A
Service life 3 operations 10/350 μ s		3	kA
Weight		~ 3	g
Operation and storage temperature		-40 ... +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue positive		TDK 800 YY 800 - Nominal voltage YY - Year of production	
Certifications		UL 1449 (E319264)	

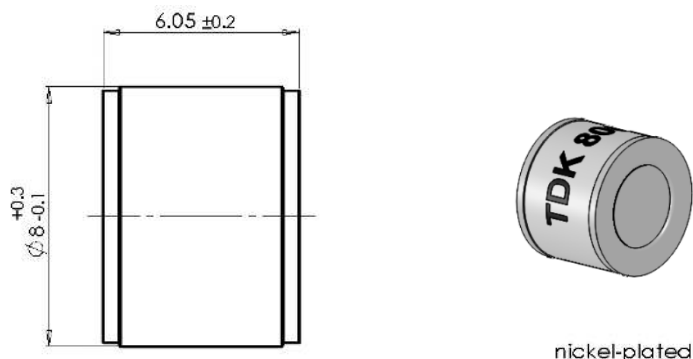
¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

³⁾ Test sequence in accordance with IEC 61643-11.

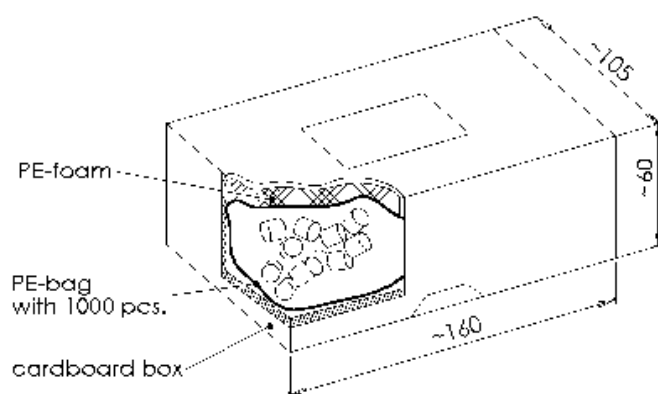
Follow current has to be avoided by an appropriate external circuit (e.g. varistor in series).

Dimensional drawing in mm



Ordering codes and packing advices

B88069X5691C103 = 1000 pcs. in container



Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- 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.
- Do not continue to use damaged surge arresters.

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Important notes

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