

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** B88069X2963B161  
**Manufacturer:** TDK  
**Package:** Tray  
**Availability:** Please confirm with sales

### Product Page:

<https://antrexco.com/product/details/tdk/b88069x2963b161.html>

### Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

## Contact Information

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## Quality & Trust

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.

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## Surge arrester

Stacked surge arresters in casing

|                       |                          |
|-----------------------|--------------------------|
| <b>Series/Type:</b>   | <b>LN30M1-A1800AC-3C</b> |
| <b>Ordering code:</b> | <b>B88069X2963B161</b>   |
| <b>Date:</b>          | <b>2026-04-01</b>        |
| <b>Version:</b>       | <b>07</b>                |

## Surge arrester

B88069X2963B161

## Stacked surge arresters in casing

LN30M1-A1800AC-3C

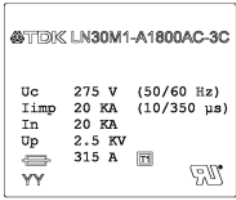
### Features

- 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 <sup>1)</sup>                                |                  | > 600                                                                                 | V               |
| Front of wave spark-over voltage<br>- at 1.2/50 $\mu$ s, 6 kV      |                  | < 2500                                                                                | V               |
| Breakdown time<br>- typical values<br>- for 99% of measured values |                  | < 100<br>< 20                                                                         | ns<br>ns        |
| Insulation resistance at 100 V <sub>DC</sub>                       |                  | > 10                                                                                  | G $\Omega$      |
| Class I according to IEC 61643-11                                  |                  |                                                                                       |                 |
| Nominal operating voltage <sup>2)</sup>                            | U <sub>N</sub>   | 230                                                                                   | V               |
| Max. continuous operating voltage <sup>2)</sup>                    | U <sub>C</sub>   | 275                                                                                   | V               |
| Nominal discharge current 8/20 $\mu$ s                             | I <sub>n</sub>   | 25                                                                                    | kA              |
| Impulse current 10/350 $\mu$ s                                     | I <sub>imp</sub> | 25                                                                                    | kA              |
| Follow current extinguishing capability <sup>3)</sup>              | I <sub>f</sub>   | 6                                                                                     | kA              |
| Class II according to IEC 61643-11                                 |                  |                                                                                       |                 |
| Nominal operating voltage <sup>2)</sup>                            | U <sub>N</sub>   | 230                                                                                   | V               |
| Max. continuous operating voltage <sup>2)</sup>                    | U <sub>C</sub>   | 275                                                                                   | V               |
| Nominal discharge current 8/20 $\mu$ s                             | I <sub>n</sub>   | 25                                                                                    | kA              |
| Max. discharge current 8/20 $\mu$ s                                | I <sub>max</sub> | 40                                                                                    | kA              |
| Follow current extinguishing capability <sup>3)</sup>              | I <sub>f</sub>   | 6                                                                                     | kA              |
| Max. temporary overvoltage (max. 5 s) <sup>2)</sup>                | U <sub>T</sub>   | 440                                                                                   | V               |
| Connection cable cross section                                     |                  | > 10                                                                                  | mm <sup>2</sup> |
| Weight                                                             |                  | ~ 70                                                                                  | g               |
| Operation and storage<br>- temperature<br>- humidity               |                  | -40 ... +125<br>5 ... 95                                                              | °C<br>%         |
| Climatic category (IEC 60068-1)                                    |                  | 40/125/21                                                                             |                 |
| Label, black negative                                              |                  |  |                 |

Remarks on next page

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## Stacked surge arresters in casing

LN30M1-A1800AC-3C

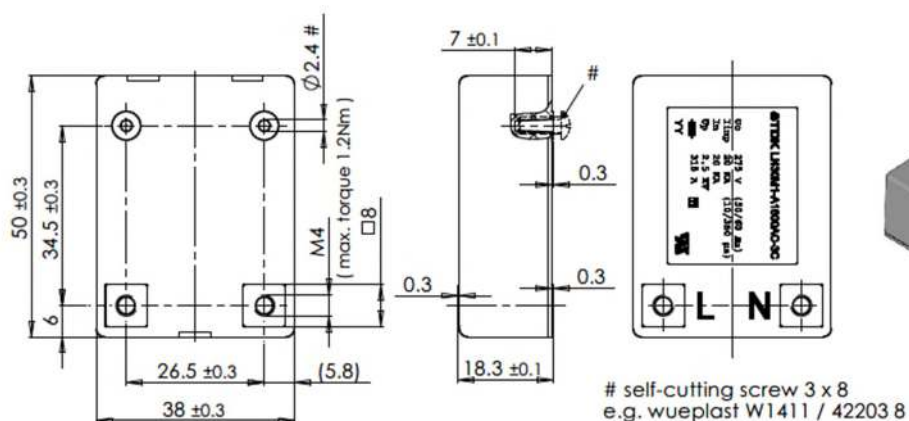
### Certifications

UL 1449 (E319264)



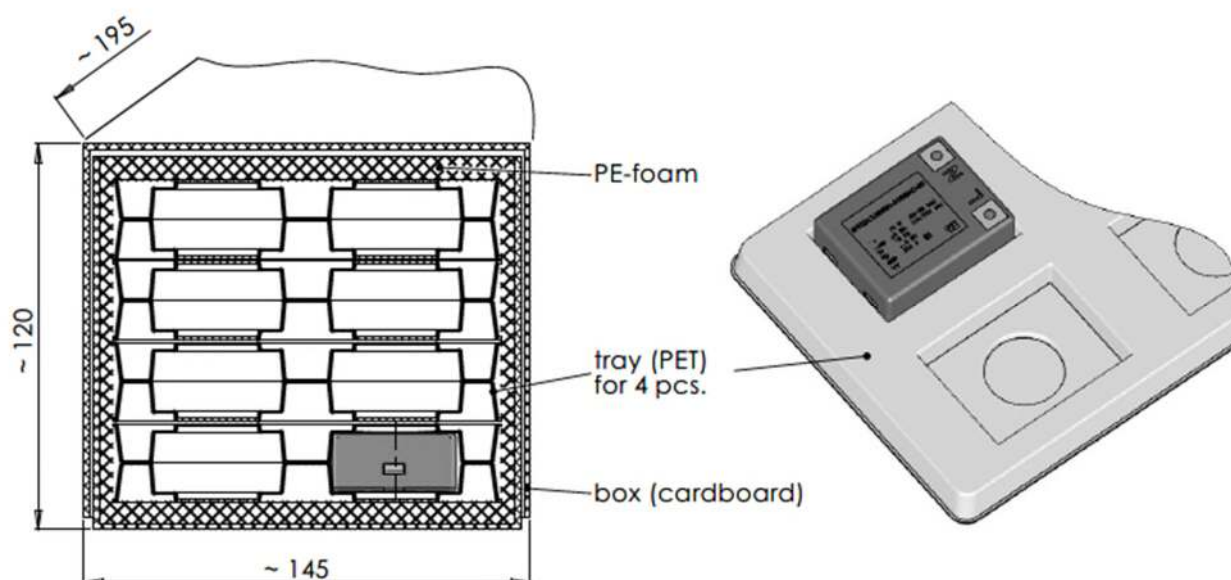
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) At 48...62 Hz
- 3) Cut-off selectivity for 40 A NH-gG/gL circuit breakers is given.

### 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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## Important notes

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