

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

|                      |                           |
|----------------------|---------------------------|
| <b>Part Number:</b>  | 0AKNBK250-BB              |
| <b>Manufacturer:</b> | Bel Fuse Inc.             |
| <b>Package:</b>      | Rectangular, Blade        |
| <b>Availability:</b> | Please confirm with sales |

#### Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0aknbk250-bb.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.

# Type 0AKN

## Electric Vehicle Power Fuses

0AKN Series

RoHS Compliant

### Description

500VDC rated ceramic tube fuse

### Features

- Design to EV fuse standard UL248-20
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Excellent DC performance
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

### Applications

EV/HEV/ESS Applications

### Physical Specifications



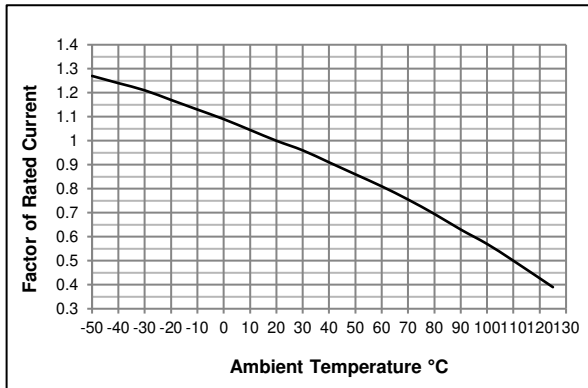
|           |                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Body : Ceramic                                                                                                                                |
|           | Terminals : Tin Plated Copper                                                                                                                 |
| Marking   | On Fuse :                                                                                                                                     |
|           | For 0AKNB: "bel", "0AKNB", "Current Rating", "Interrupting Rating", "Voltage Rating", "Appropriate Safety Logos", "aR"                        |
|           | For 0AKNZ: : "bel", "0AKNZ", "Current Rating", "Interrupting Rating", "Voltage Rating"                                                        |
|           | On Label :                                                                                                                                    |
|           | "bel", "0AKNX", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "RoHS", "e" (China RoHS compliant). |
|           |                                                                                                                                               |
|           |                                                                                                                                               |

### Safety Agency Approvals

| Safety Agency                                           | Part Number  | Ampere Rating / Voltage Rating             | Ampere Range / Volt @ I.R. ability*                      |
|---------------------------------------------------------|--------------|--------------------------------------------|----------------------------------------------------------|
| cULus<br>E491441                                        | 0AKNBxxxx-xx | 100A-250A / 500V DC                        | 100A-250A / 500V @ 50kA DC                               |
|                                                         | 0AKNBxxxx-xx | 100A-200A / 420V AC                        | 100A-200A / 420V @ 20kA AC                               |
|                                                         | 0AKNZxxxx-xx | 100A-250A / 500V DC<br>100A-200A / 420V AC | 100A-250A / 500V @ 50kA DC<br>100A-200A / 420V @ 20kA AC |
| *I.R.= Interrupting Rating = Short Circuit Rating(Amps) |              |                                            |                                                          |

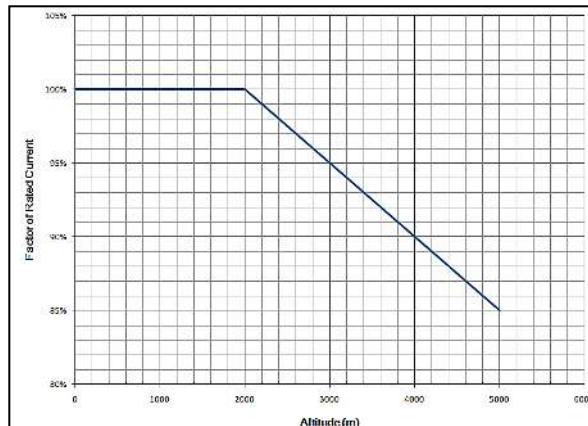
## Temperature Derating Curve

Operating Temperature: -40°C to +125°C,  
with proper derating factor applied

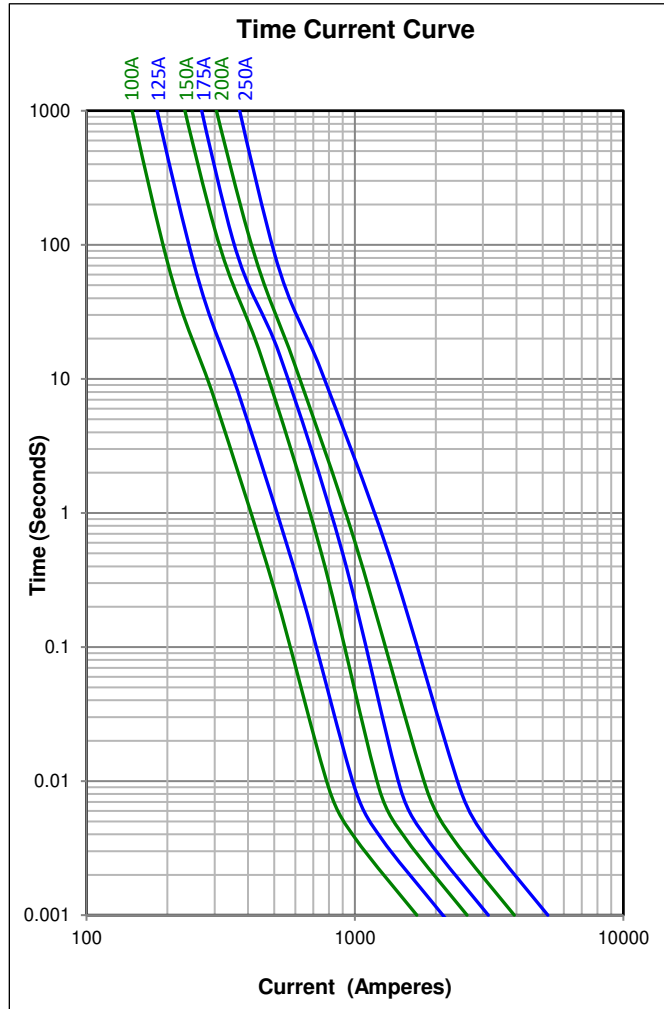


## Re-rating with High altitude

The high altitude load calculation formula is:  
 $I = I_n \cdot (1 - (h-2000)/100 \cdot (0.5/100))$ ,  
 where h is an elevation, not more than 5000



## Average Time Current Curve



## Electrical Specifications

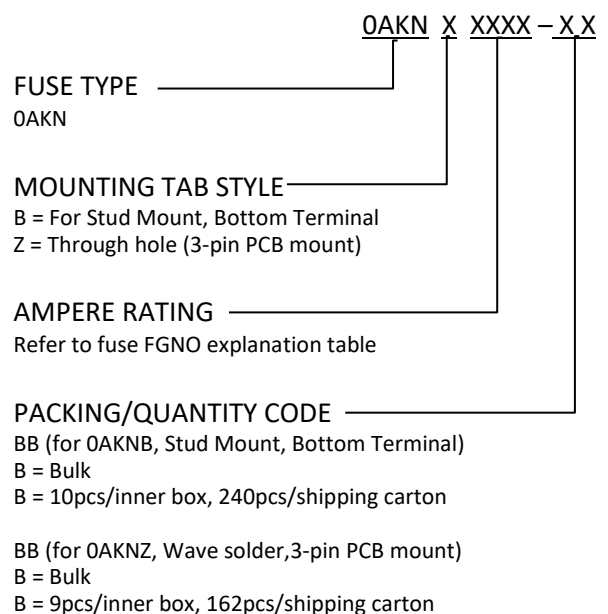
| Part Number  | Rated Current | Voltage and Interrupting Ratings                                               | I²t (A²sec) |                | Power Loss (W) | Agency Approvals                                                                      |
|--------------|---------------|--------------------------------------------------------------------------------|-------------|----------------|----------------|---------------------------------------------------------------------------------------|
|              |               |                                                                                | Pre-arcing  | Total @ 500Vdc |                |  |
| 0AKNBK100-xx | 100A          | See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings | 1770        | 7020           | 14.9           | Y                                                                                     |
| 0AKNZK100-xx |               |                                                                                |             |                |                |                                                                                       |
| 0AKNBK125-xx | 125A          |                                                                                | 2850        | 11500          | 19.3           | Y                                                                                     |
| 0AKNZK125-xx |               |                                                                                |             |                |                |                                                                                       |
| 0AKNBK150-xx | 150A          |                                                                                | 4150        | 15770          | 23.1           | Y                                                                                     |
| 0AKNZK150-xx |               |                                                                                |             |                |                |                                                                                       |
| 0AKNBK175-xx | 175A          |                                                                                | 5970        | 22850          | 27.5           | Y                                                                                     |
| 0AKNZK175-xx |               |                                                                                |             |                |                |                                                                                       |
| 0AKNBK200-xx | 200A          |                                                                                | 9350        | 36500          | 30.8           | Y                                                                                     |
| 0AKNZK200-xx |               |                                                                                |             |                |                |                                                                                       |
| 0AKNBK250-xx | 250A          |                                                                                | 16600       | 67800          | 35.2           | Y                                                                                     |
| 0AKNZK250-xx |               |                                                                                |             |                |                |                                                                                       |

Consult manufacturer for other ratings

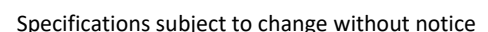
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0AKNB/0AKNZ=0AKNB/0AKNZ; [XXXX]=Ampere Rating; XX=See Ordering Information as below

## Ordering Information



| Packaging Option                             | Quantity                                | Packaging Code |
|----------------------------------------------|-----------------------------------------|----------------|
| Bulk(for 0AKNB, Stud Mount, Bottom Terminal) | 10pcs/inner box, 240pcs/shipping carton | BB             |
| Bulk(for 0AKNZ, Wave solder,3-pin PCB mount) | 9pcs/inner box, 162pcs/shipping carton  | BB             |



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