

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 0AKNBK100-BB
Manufacturer: Bel Fuse Inc.
Package: Rectangular, Blade
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0aknbk100-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



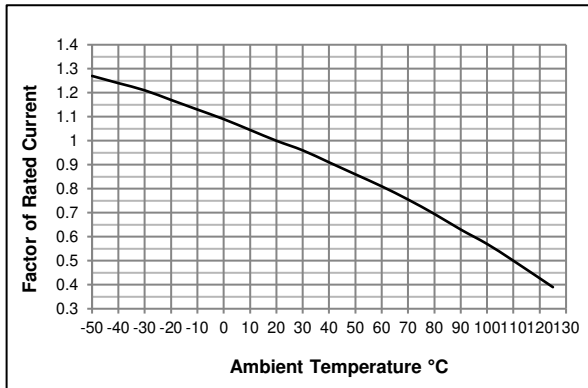
Materials	Body : Ceramic
	Terminals : Tin Plated Copper
Marking	On Fuse :
	For 0AKNB: "bel", "0AKNB", "Current Rating", "Interrupting Rating", "Voltage Rating", "Appropriate Safety Logos", "aR"
	For 0AKNZ: : "bel", "0AKNZ", "Current Rating", "Interrupting Rating", "Voltage Rating"
	On Label :
	"bel", "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 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 100A-200A / 420V AC	100A-250A / 500V @ 50kA DC 100A-200A / 420V @ 20kA AC
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)			

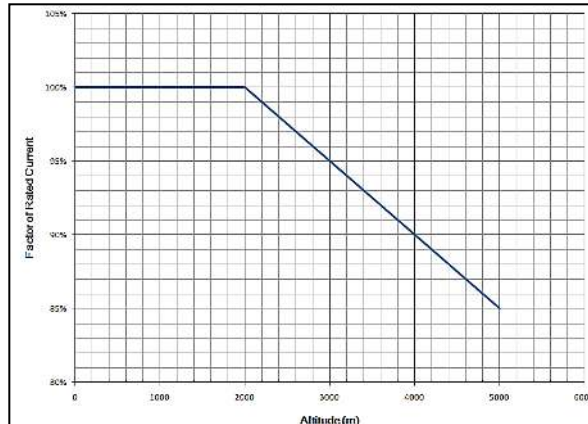
Temperature Derating Curve

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

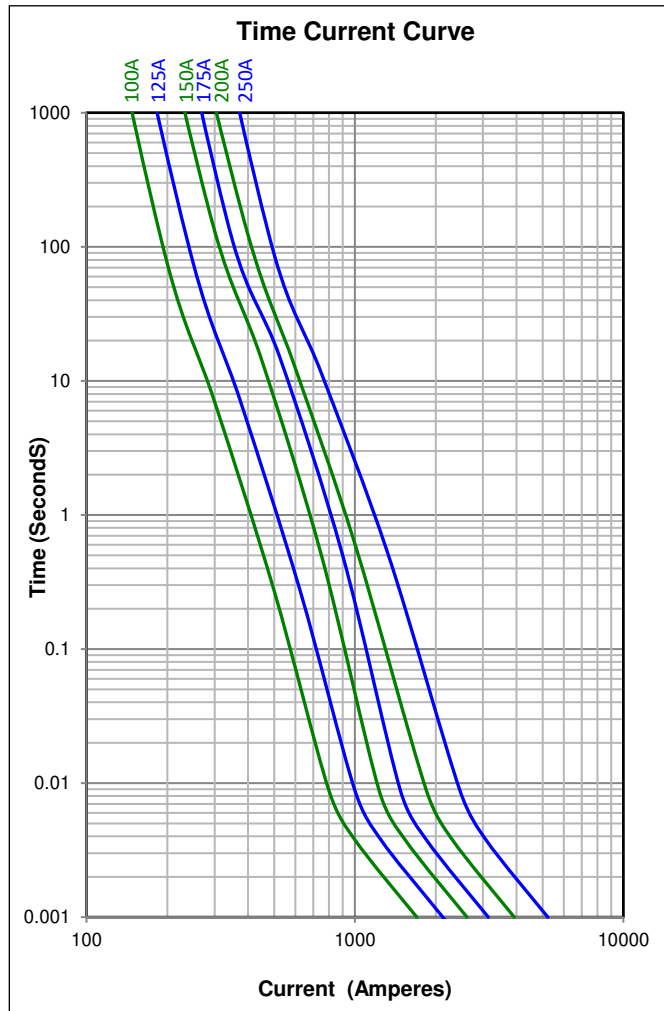


Re-rating with High altitude

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

Type 0AKN

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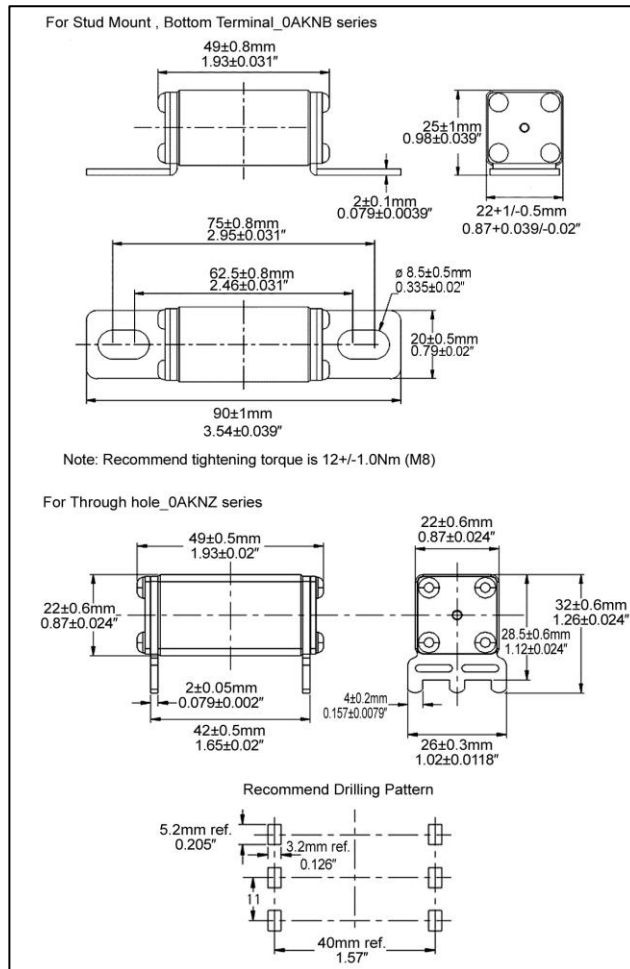
Fuse FGNO Explanation

0AKN X [XXXX] -XX

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

Amps	Bel FGNO[XXXX]
100A	K100
125A	K125
150A	K150
175A	K175
200A	K200
250A	K250

Mechanical Dimensions



Ordering Information

0AKN X XXXX - XX

FUSE TYPE _____
0AKN

MOUNTING TAB STYLE _____
B = For Stud Mount, Bottom Terminal
Z = Through hole (3-pin PCB mount)

AMPERE RATING _____
Refer to fuse FGNO explanation table

PACKING/QUANTITY CODE _____
BB (for 0AKNB, Stud Mount, Bottom Terminal)
B = Bulk
B = 10pcs/inner box, 240pcs/shipping carton

BB (for 0AKNZ, Wave solder, 3-pin PCB mount)
B = Bulk
B = 9pcs/inner box, 162pcs/shipping carton

Packaging

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