

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

**Part Number:** 0AKLZ9500-BB  
**Manufacturer:** Bel Fuse Inc.  
**Package:** Radial Bend Cylinder  
**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/bel-fuse-inc/0aklz9500-bb.html>

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### 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 0AKL

## Electric Vehicle Auxiliary Fuses

OAKL Series

RoHS Compliant

### Description

General purpose fuse for EV/HEV

### Features

- Excellent DC performance
- Design refer to JASO D622:2006(for 10A-30A)
- Design to EV fuse standard UL248-20(for 40A-50A)  
Reliability performance design refer to ISO8820-8&GB/T31465.6(for 40A-50A)
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

### Applications

EV or HEV application

### Electrical Characteristics

| % of Ampere Rating<br>(A) | 10A-30A                  |      | 40A-50A                  |      |
|---------------------------|--------------------------|------|--------------------------|------|
|                           | Operating Time (Unit: s) |      | Operating Time (Unit: s) |      |
|                           | Min.                     | Max. | Min.                     | Max. |
| 200%                      | 1                        | 300  | 0.5                      | 100  |
| 300%                      | 0.2                      | 30   | 0.1                      | 15   |
| 500%                      | 0.1                      | 10   | 0.05                     | 1    |



UK  
CA CE

### Physical Specifications

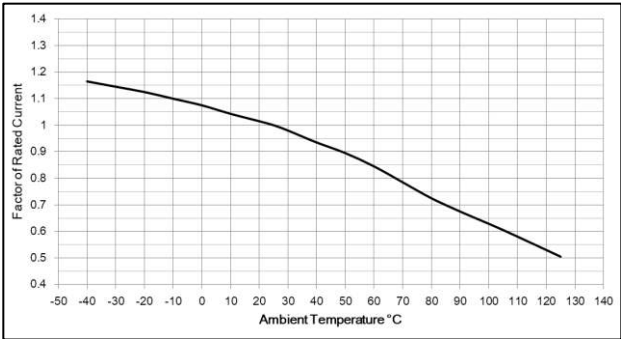
|           |                                                                                                                                                                                                                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Body : Ceramic                                                                                                                                                                                                                                                                                                                                           |
|           | Terminals :<br>10A-30A: Stud Mount, Center Terminal (Tin Plated Brass);<br>Stud Mount, Bottom Terminal (Tin Plated Copper);<br>Wave solder, 1-pin PCB mount (Silver Plated Brass);<br>Wave solder, 2-pin PCB mount (Tin Plated Copper).<br>40A-50A: Wave solder, 3-pin PCB mount (Tin Plated Copper);<br>Stud Mount, Bottom Terminal (Tin Plated Copper) |
| Marking   | On Fuse :                                                                                                                                                                                                                                                                                                                                                |
|           | "bel", "0AKL",                                                                                                                                                                                                                                                                                                                                           |
|           | "Current Rating", "Voltage Rating"                                                                                                                                                                                                                                                                                                                       |
|           | On Label :                                                                                                                                                                                                                                                                                                                                               |
|           | "bel", "0AKLX", "Current Rating", "Voltage Rating", "Interrupting Rating",<br>"Appropriate Safety Logos" and "  , "  "(China RoHS compliant).                                  |

### Ratings

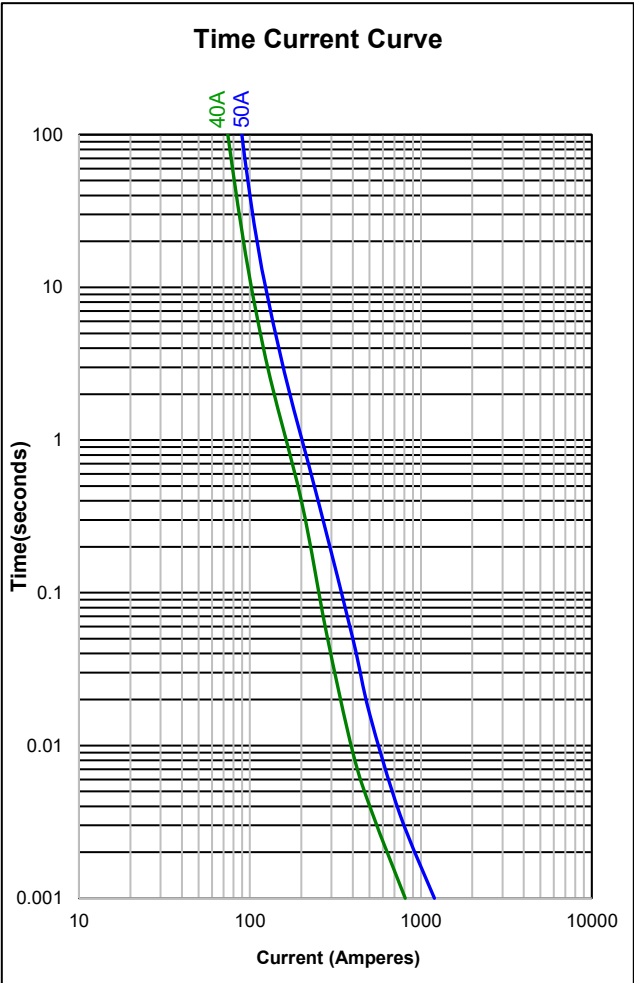
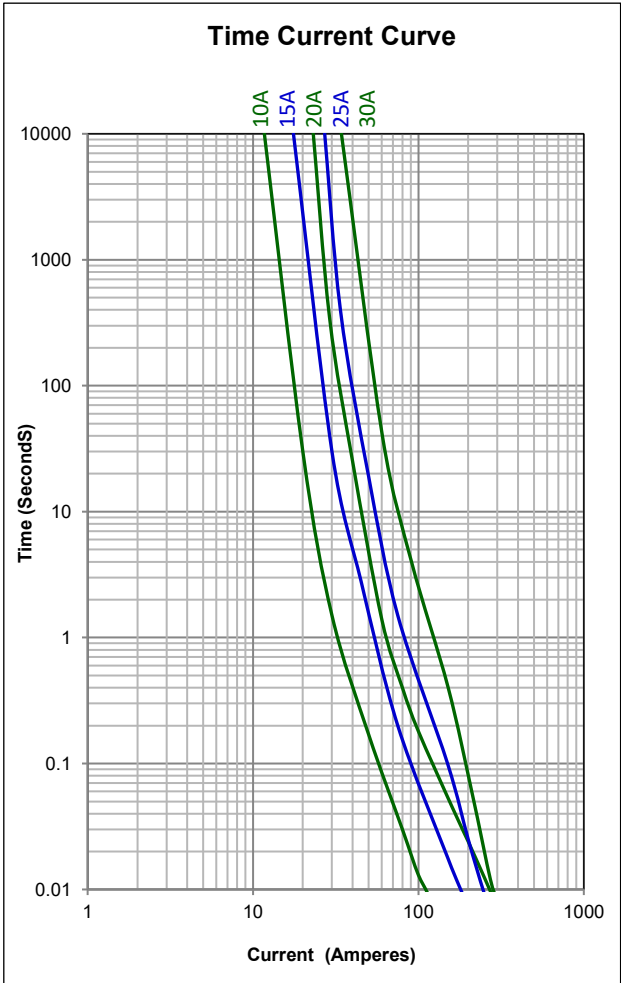
| Ampere Rating / Voltage Rating                          | Ampere Range / Volt<br>@ I.R. ability* |
|---------------------------------------------------------|----------------------------------------|
| 10A-50A / 1000V DC                                      | 10A-50A / 1000V @ 50kA DC              |
| *I.R.= Interrupting Rating = Short Circuit Rating(Amps) |                                        |

## Temperature Re-Rating Curve

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



## Average Time Current Curve



## Electrical Specifications

| Part Number  | Ampere Rating | Voltage and Interrupting Ratings                                               | Typical cold resistance<br>(mOhms) | Typical voltage drop<br>(mV) |          | Pre-arcing<br>$I^2t^{**}$<br>(A <sup>2</sup> sec) | Total $I^2t$<br>(A <sup>2</sup> sec) |
|--------------|---------------|--------------------------------------------------------------------------------|------------------------------------|------------------------------|----------|---------------------------------------------------|--------------------------------------|
|              |               |                                                                                |                                    | At 0.5In                     | At 1.0In |                                                   |                                      |
| 0AKLx9100-xx | 10A           | See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings | 12.5                               | 60                           | 130      | 35                                                | 115                                  |
| 0AKLx9150-xx | 15A           |                                                                                | 7.2                                | 60                           | 140      | 82                                                | 245                                  |
| 0AKLx9200-xx | 20A           |                                                                                | 5.2                                | 80                           | 154      | 330                                               | 1010                                 |
| 0AKLx9250-xx | 25A           |                                                                                | 4.0                                | 63                           | 145      | 290                                               | 1330                                 |
| 0AKLx9300-xx | 30A           |                                                                                | 3.1                                | 56                           | 150      | 420                                               | 1850                                 |

Consult manufacturer for other ratings

\*Temperature Rise: <=50K with 70% of rated current

\*\* Typical pre-arcing  $I^2t$  measured at 1000VDC/50kA

| Part Number  | Ampere Rating | Voltage and Interrupting Ratings                                               | Power Loss@0.5In<br>(W) | Typical pre-arcing $I^2t^{**}$<br>(A <sup>2</sup> sec) |
|--------------|---------------|--------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------|
| 0AKLx9400-xx | 40A           | See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings | 1.3                     | 1440                                                   |
| 0AKLx9500-xx | 50A           |                                                                                | 1.45                    | 4000                                                   |

\*\* Typical pre-arcing  $I^2t$  measured at 10In

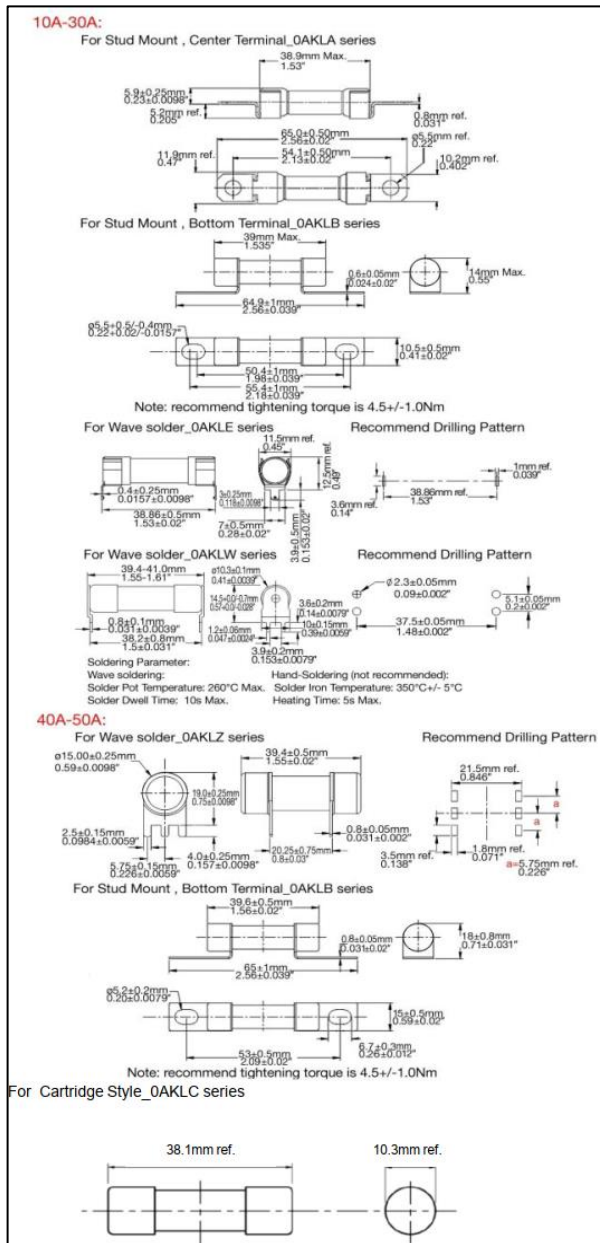
## Fuse FGNO Explanation

0AKL X [XXXX] -XX

0AKLA/B/E/W/=0AKLA/B/E/W; [XXXX]=Ampere Rating; XX=See Ordering Information as below

| Amps | Bel FGNO[XXXX] | Amps | Bel FGNO[XXXX] |
|------|----------------|------|----------------|
| 10   | 9100           | 25   | 9250           |
| 15   | 9150           | 30   | 9300           |
| 20   | 9200           | 40   | 9400           |
|      |                | 50   | 9500           |

## Mechanical Dimensions



## Ordering Information

**OAKL X XXXX - X X**

**FUSE TYPE** \_\_\_\_\_

**OAKL**

**MOUNTING TAB STYLE** \_\_\_\_\_

A = For Stud Mount, Center Terminal  
B = For Stud Mount, Bottom Terminal  
E = For Wave solder(1-pin PCB mount)  
W = For 10A-30A Wave solder(2-pin PCB mount)  
Z = For 40A-50A Wave solder(3-pin PCB mount)  
C = For Cartridge style

**AMPERE RATING** \_\_\_\_\_

Refer to fuse FGNO explanation table

**PACKING/QUANTITY CODE** \_\_\_\_\_

BE (for OAKLE, 10A-30A Wave solder, 1-pin PCB mount)  
B = Bulk  
E = 20pcs/inner box, 700pcs/carton box

BF (for OAKLA, 10A-30A Stud mount, center terminal)  
B = Bulk  
F = 20pcs/inner box, 1200pcs/carton box

PD (for OAKLB, 10A-30A Stud Mount, Bottom Terminal)  
P = Plastic tray pack  
D = 40pcs/tray, 400pcs/carton box

BE (for OAKLW, 10A-30A Wave solder, 2-pin PCB mount)  
B = Bulk  
E = 40pcs/Tray, 520pcs/carton box

BB (for OAKLZ, 40A-50A Wave solder, 3-pin PCB mount)  
B = Bulk  
B = 36pcs/tray, 360pcs (10 trays) /carton box

BC (for OAKLB, 40A-50A Stud Mount, Bottom Terminal)  
B = Bulk  
C = 12pcs/inner box, 324pcs/carton box

BB (for OAKLC, 10A-30A Cartridge style)  
B = Bulk  
B = 10pcs/inner box, 1000pcs/ carton box

## Packaging

| Packaging Option                 | Quantity                                                 | Packaging Code |
|----------------------------------|----------------------------------------------------------|----------------|
| Plastic tray (For OAKLB 10A~30A) | 40 pcs/plastic tray, 400pcs/ carton box                  | PD             |
| Bulk (For OAKLE 10A~30A)         | 20pcs / inner box, 700pcs (35 inner boxes) / carton box  | BE             |
| Bulk (For OAKLA 10A~30A)         | 20pcs / inner box, 1200pcs (60 inner boxes) / carton box | BF             |
| Bulk (For OAKLW 10A~30A)         | 40pcs/Tray, 520pcs (13 Tray) /carton box                 | BE             |
| Bulk (For OAKLZ 40A~50A)         | 36pcs/Tray, 360pcs (10 Trays) /carton box                | BB             |
| Bulk (For OAKLB 40A~50A)         | 12pcs / inner box, 324pcs (27 inner boxes) / carton box  | BC             |
| Bulk (For OAKLC 10A-30A)         | 10pcs/inner box, 1000pcs/ carton box                     | BB             |