

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	0AKLB9100-PD
Manufacturer:	Bel Fuse Inc.
Package:	Cylindrical, Blade Terminal (Bolt)
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0aklb9100-pd.html>

Request a Quote:

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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 (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

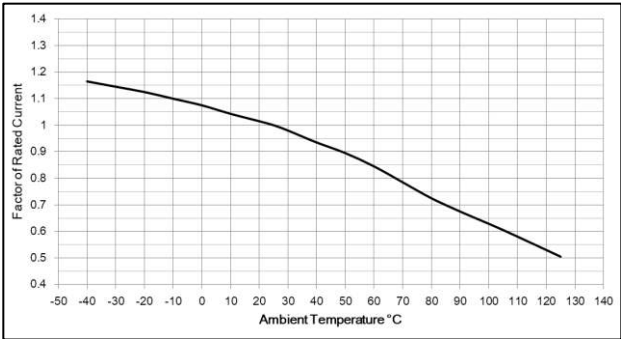
Materials	Body : Ceramic
	Terminals : 10A-30A: Stud Mount, Center Terminal (Tin Plated Brass); Stud Mount, Bottom Terminal (Tin Plated Copper); Wave solder, 1-pin PCB mount (Silver Plated Brass); Wave solder, 2-pin PCB mount (Tin Plated Copper). 40A-50A: Wave solder, 3-pin PCB mount (Tin Plated Copper); 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", "Appropriate Safety Logos" and "  ", "  "(China RoHS compliant).

Ratings

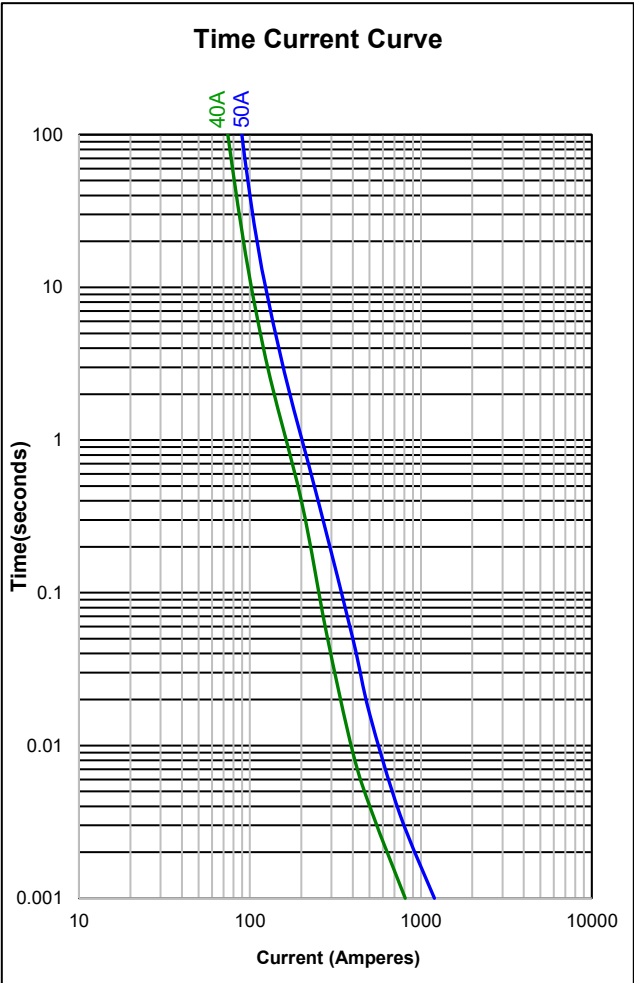
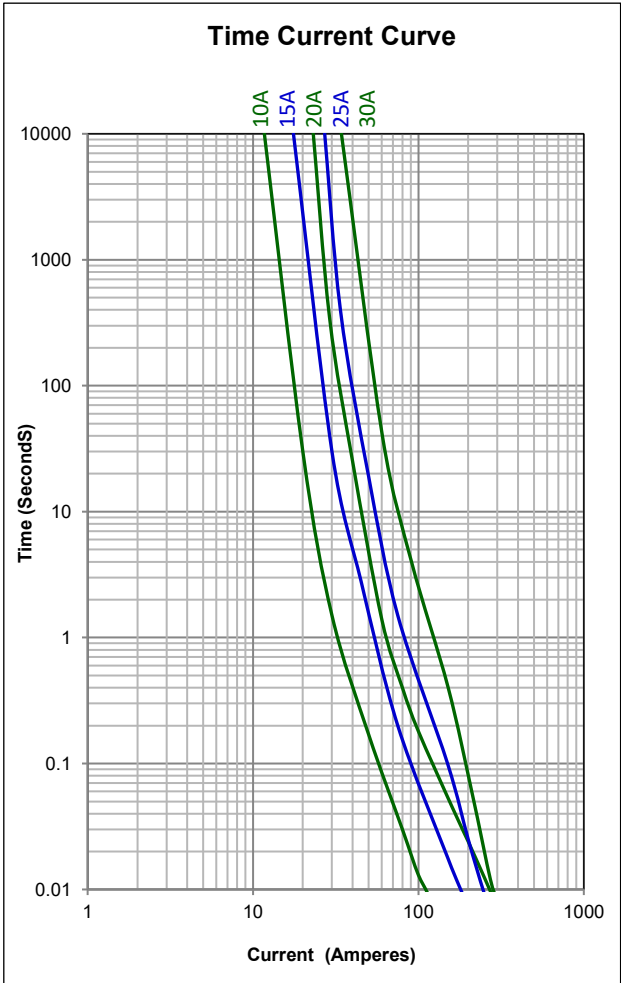
Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
10A-50A / 1000V DC	10A-50A / 1000V @ 50kA DC
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)	

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 (mOhms)	Typical voltage drop (mV)		Pre-arcing I^2t^{**} (A ² sec)	Total I^2t (A ² 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 (W)	Typical pre-arcing I^2t^{**} (A ² 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

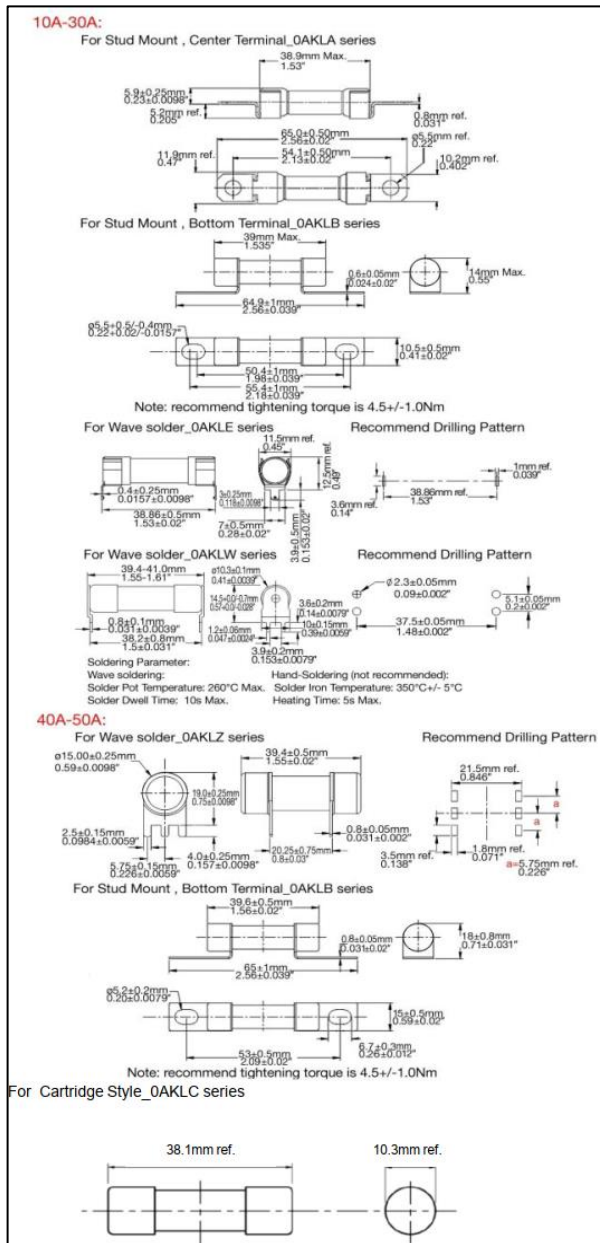
Fuse FGNO Explanation

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