

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	0ALCB9600-BD
Manufacturer:	Bel Fuse Inc.
Package:	Cylindrical, Blade Terminals
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0alcb9600-bd.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 0ALC

Electric Vehicle Power Fuses

0ALC

RoHS Compliant

Features

- DC fuse for EV/HEV/ESS
- Stud-mount / Through hole, optional for other installation
- Excellent DC performance
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Designed to UL248-20
- Fully compliance with EU Directive 2011/65/EU and amending directive 2015/863



UK CA CE

Physical Specifications

Materials	Body : Ceramic
	Cap : Tin plated copper
Marking	On Fuse :
	"bel", "Current Rating", "Voltage Rating"
	On Label :
	"bel", "0ALCX", "Current Rating", "Voltage Rating", "Interrupting Rating", and "RoHS", "CE" (China RoHS compliant).

Ratings

Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
50A-80A / 800V DC	50A-80A / 800V @ 50KA DC
*I.R.=DC Interrupting Rating	

Electrical Specifications

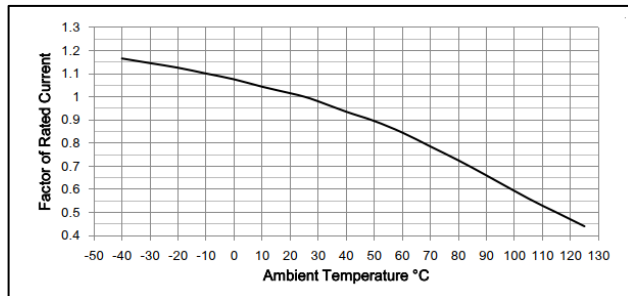
Part Number	Ampere Rating	Voltage and Interrupting Ratings	Typical Pre-Arcing I ² t (A ² Sec)**	Power Loss@0.5In (W)
0ALCx9500-xx	50A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	2000	1.6
0ALCx9600-xx	60A		3600	1.65
0ALCx9700-xx	70A		5800	1.8
0ALCx9800-xx	80A		12500	2

Consult manufacturer for other ratings

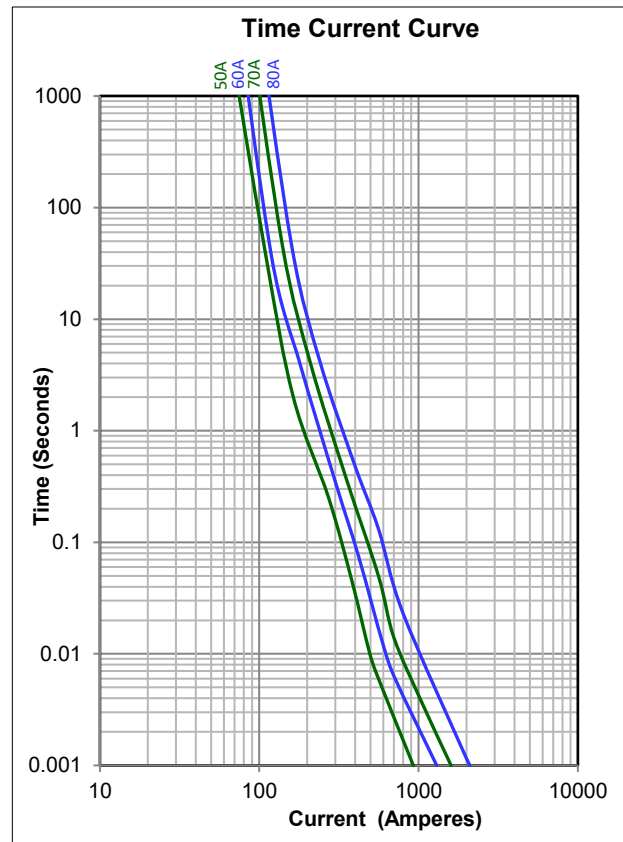
**Typical Pre-arcing I²t are measured at 10In Current.

Temperature Re-Rating Curve

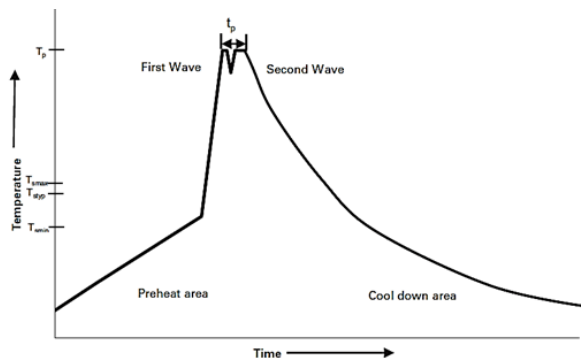
Normal Operating Temperature: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
 Operating Temperature: -40°C to 125°C with proper correction factor applied.
 Chart of correction factor



Average Time Current Curve



Wave Soldering profile



Reflow soldering not recommended

Reference EN 61760-1:2006

Profile Feature	Lead (Pb) Free Solder
Preheat	• Temperature min. (T_{smin}) 100°C • Temperature typ. (T_{syp}) 120°C • Temperature max. (T_{smax}) 130°C • Time (T_{smin} to T_{smax}) (t_p) 70 seconds
Δ preheat to max Temperature	150°C max.
Peak temperature (T_p)	$250^{\circ}\text{C} - 260^{\circ}\text{C}$
Time at peak temperature (t_p)	10 seconds max 5 seconds max each wave
Ramp-down rate	$\sim 2\text{ K/s}$ min $\sim 3.5\text{ K/s}$ typ $\sim 5\text{ K/s}$ max
Time 25°C to 25°C	4 minutes

Type 0ALC

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Fuse FGNO Explanation

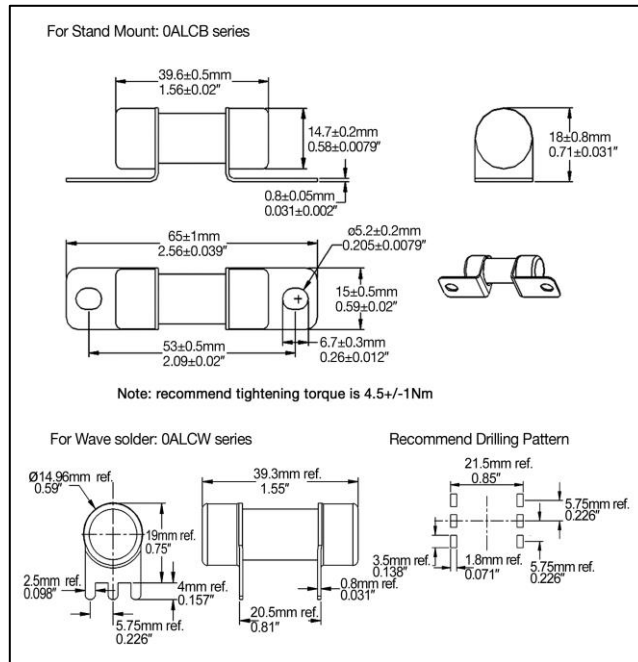
0ALC X [XXXX] -XX

0ALCB=0ALCB; 0ALCW=0ALCW

[XXXX]=Ampere Rating; XX=See Ordering Information as below

Decimal	Amps	Bel FGNO[XXXX]
50	50	9500
60	60	9600
70	70	9700
80	80	9800

Mechanical Dimensions



Ordering Information

0ALC X XXXX - X X

FUSE TYPE _____
0ALC

Mounting Tab Style _____
B=For Stand Mount
W=For Through hole

AMPERE RATING _____
Refer to fuse FGNO explanation table

PACKING CODE _____
B = Bulk

QUANTITY CODE _____
D = 12pcs/inner box, 324pcs/shipping carton (For 0ALCB)
B = 36pcs/tray, 360pcs (10 trays) /carton box (For 0ALCW)

Packaging

Packaging Option	Quantity	Packaging Code
Bulk(0ALCB)	12pcs/inner box, 324pcs/shipping carton	BD
Bulk(0ALCW)	36pcs/tray, 360pcs (10 trays) /carton box	BB