

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



₽ CE

# **Physical Specifications**

	Materials	Body : Ceramic
		Cap : Silver Plated copper
	Marking	On Fuse :
		"bel", "Current Rating", "Voltage Rating"
		On Label :
		"bel", "0ALCX", "Current Rating", "Voltage Rating", "Interrupting Rating", and " (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 I²t (A²Sec)**	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.



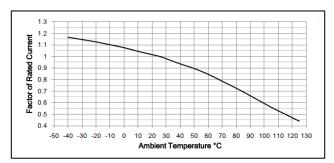
Specifications subject to change without notice

Type 0ALC

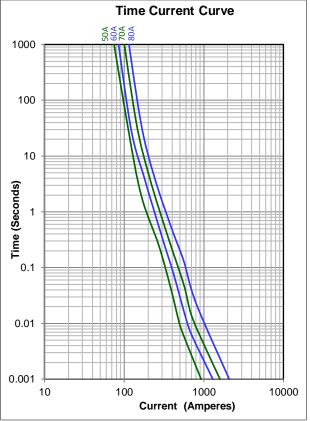
## **Temperature Re-Rating Curve**

Normal Operating Temperature: 25  $^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 

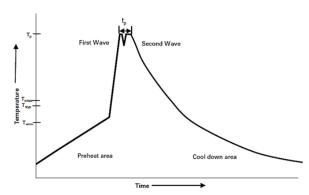
Chart of correction factor



# **Average Time Current Curve**



### **Wave Soldering profile**



Reflow soldering not recommended

#### Reference EN 61760-1:2006

Profile Feature		Lead (Pb) Free Solder	
Preheat	<ul> <li>Temperature min. (T<sub>smin</sub>)</li> </ul>	100°C	
	<ul> <li>Temperature typ. (T<sub>styp</sub>)</li> </ul>	120°C	
	Temperature max. (T <sub>smax</sub> )	130°C	
	<ul> <li>Time (T<sub>smin</sub> to T<sub>smax</sub>) (t<sub>s</sub>)</li> </ul>	70 seconds	
Δ preheat to max Temperature		150°C max.	
Peak temperature (Tp)*		250°C - 260°C	
Time at peak temperature (tp)		10 seconds max 5 seconds max each wave	
Ramp-down rati	8	2 K/s min 3.5 K/s typ 5 K/s max	
Time 25°C to 25°C		4 minutes	



Specifications subject to change without notice

Bel Fuse Inc. 206 Van Vorst Street Jersey City, NJ 07302 USA +1 201.432.0463 Bel.US.CS@belf.com belfuse.com/circuit-protection Type 0ALC

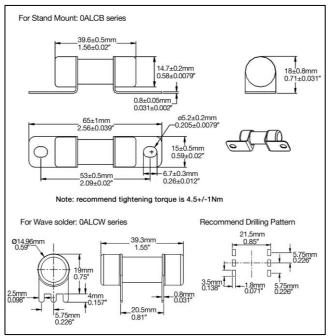
Fuse FGNO Explanation OALC X [XXXX] -XX

**OALCB=OALCB; OALCW=OALCW** 

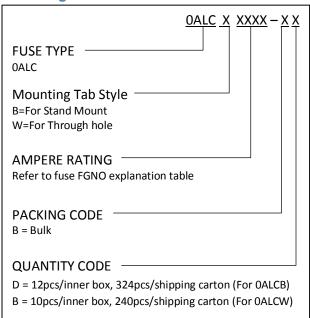
[XXXX]=Ampere Rating; XX=See Ordering Information as below

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

#### **Mechanical Dimensions**



### **Ordering Information**



#### **Packaging**

Packaging Option	Quantity	Packaging Code
Bulk(0ALCB)	12pcs/inner box, 324pcs/shipping carton	BD
Bulk(0ALCW)	10pcs/inner box, 240pcs/shipping carton	BB



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Rev. 0ALC Apr2023