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



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	

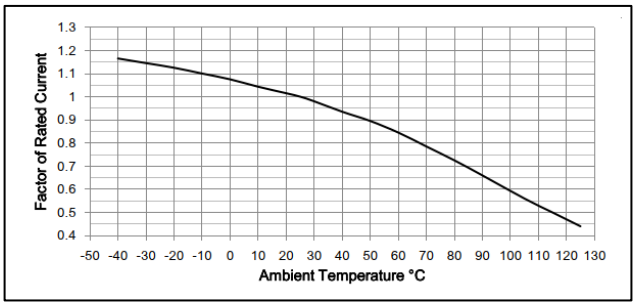
Electrical Specifications

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

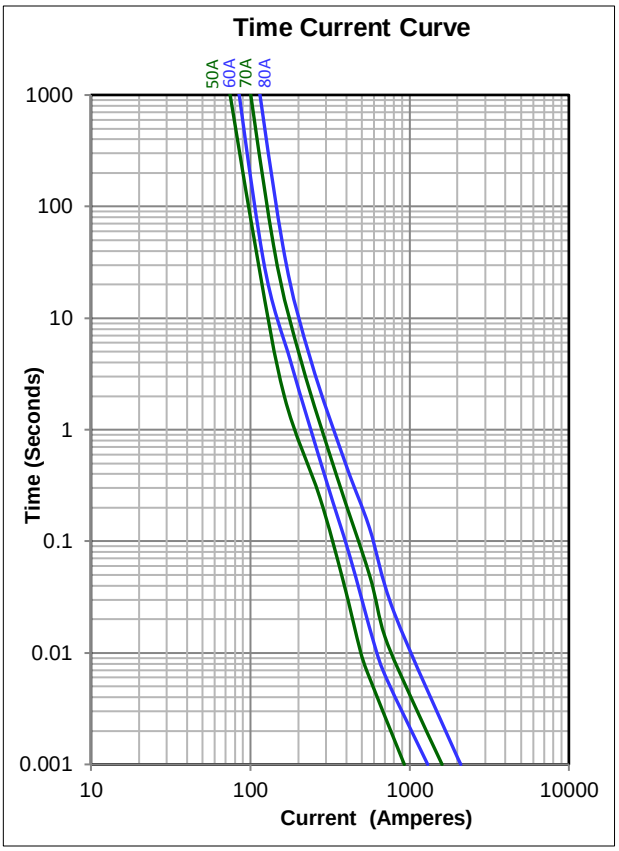
Consult manufacturer for other ratings
**Typical Pre-arcing I²t are measured at 10In Current.

Temperature Re-Rating Curve

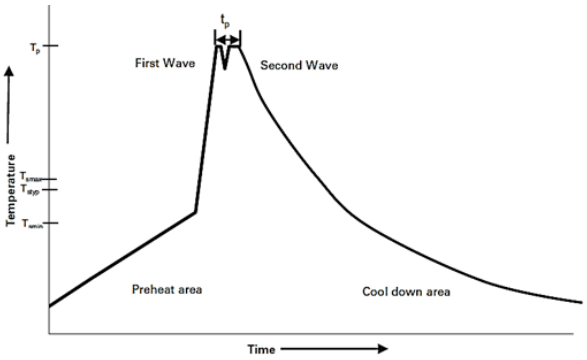
Normal Operating Temperature: 25℃ ± 2℃
Operating Temperature: -40℃ to 125℃ with proper correction factor applied.
Chart of correction factor



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_{styp})	120°C
	• Temperature max. (T_{smax})	130°C
	• Time (T_{smin} to T_{smax}) (t_s)	70 seconds
Δ preheat to max Temperature		150°C max.
Peak temperature (Tp)*		250°C – 260°C
Time at peak temperature (t_p)		10 seconds max 5 seconds max each wave
Ramp-down rate		~ 2 K/s min ~3.5 K/s typ ~5 K/s max
Time 25°C to 25°C		4 minutes

Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

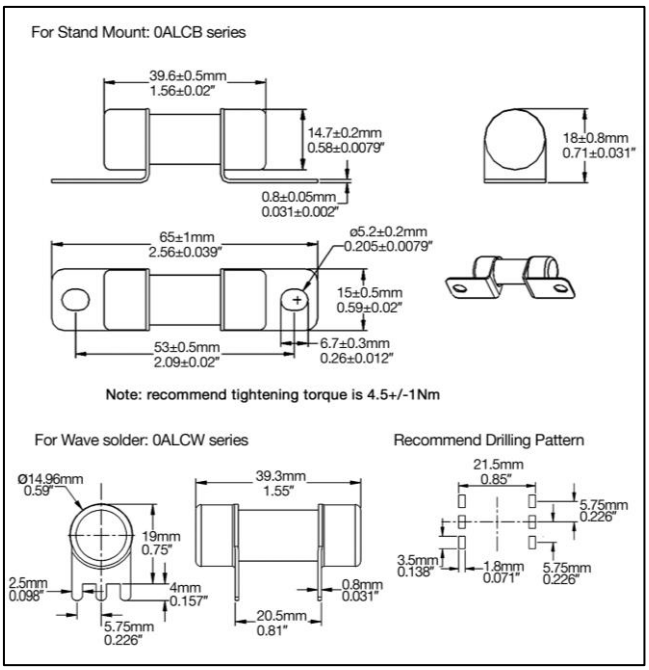
+1 201.432.0463
Bel.US.CS@belf.com
belfuse.com/circuit-protection

Please read our datasheet & drawing disclaimer here.

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 = 10pcs/inner box, 240pcs/shipping carton (For 0ALCW)

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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