

#### **OALE Series**

#### **RoHS** Compliant

#### Description

The 0ALEX fuse is designed for protection of high-voltage accessory circuits in Electric Vehicle and Hybrid Electric Vehicles and Energy Storage System

#### **Features**

- 500Vdc ideal for EV or HEV or ESS application
- Excellent DC performance
- Stud-mount, optional for other installation
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Design to EV fuse standard UL248-20
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

#### **Applications**

Provide individual protection for components or internal circuits.



#### **Physical Specifications**

	Body : Ceramic
Materials	Cap : Tin Plated Copper Caps
	Terminals : Tin Plated Copper (For stud Mount type)
	On Fuse :
Marking	"bel"
	"0ALE", "Current Rating", "Voltage Rating"
	On Label :
	"bel","0ALEX", "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 / 500V DC	10A - 50A / 500V @ 20kA DC			
I.R.= Interrupting Rating = Short Circuit Rating (Amps)				



Specifications subject to change without notice

# Type 0ALE

1.4 1.3 1.2

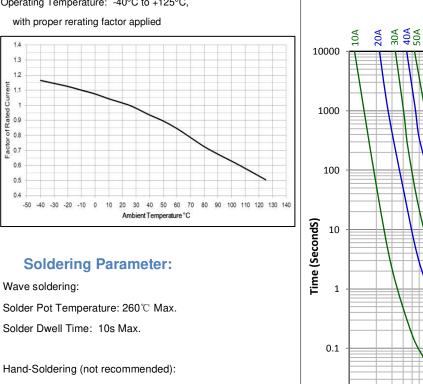
Factor of Rated Current 20 80 60 1 11

0.6 0.5 0.4

## **Temperature Rerating Curve**

Operating Temperature: -40°C to +125°C,

## **Average Time Current Curve**



Hand-Soldering (not recommended):

Solder Iron Temperature:  $350^{\circ}C \pm 5^{\circ}C$ Heating Time: 5s Max.

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1000 -				
100 -				
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Time (Seconds)				
<b>-</b>				
0.1 -				
0.01 -				
0.01				
0.001 -				
10 100 1000 10000				
Current (Amperes)				

**Time Current Curve** 

## **Electrical Specifications**

Part Number	Ampere Rating	Typical Cold Resistance (mohms)	Typical Voltage Drop (mV)	Voltage and Interrupting Ratings	Typical pre- arcing l <sup>2</sup> t (A <sup>2</sup> sec)
0ALEx9100-xx	10A	13.5	185	See Table of Ratings on Page 1 for Voltage and associated Interrupting	130
0ALEx9200-xx	20A	5.1	145		435
0ALEx9300-xx	30A	3.1	150		1650
0ALEx9400-xx	40A	2.2	150	Ratings	2850
0ALEx9500-xx	50A	1.65	165		5250

Consult manufacturer for other ratings

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

Typical pre-arcing I<sup>2</sup>t measured at 10In



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# Type 0ALE

## **Fuse FGNO Explanation**

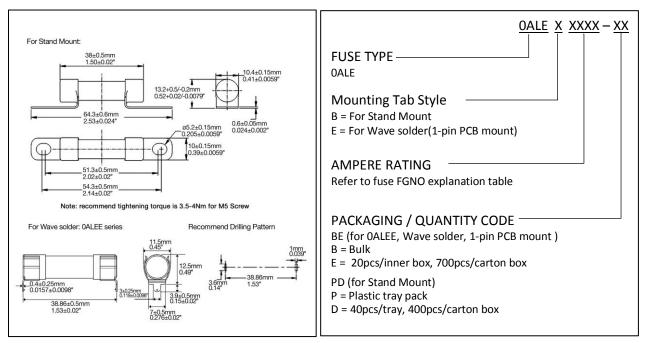
## OALE X [XXXX] - XX

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

Amps	Bel FGNO[XXX]
10	9100
20	9200
30	9300
40	9400
50	9500

### **Mechanical Dimensions**

### **Ordering Information**



### Packaging

Packaging Option	Quantity	Packaging Code
Bulk (OALEE)	20pcs / inner box, 700pcs (35 inner boxes) / carton box	BE
Plastic tray pack (for Stand Mount)	40pcs / plastic tray, 400pcs (10 plastic tray) / carton box	PD



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