

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

|                      |                              |
|----------------------|------------------------------|
| <b>Part Number:</b>  | 0ALDB9250-PD                 |
| <b>Manufacturer:</b> | Bel Fuse Inc.                |
| <b>Package:</b>      | Cylindrical, Blade Terminals |
| <b>Availability:</b> | Please confirm with sales    |

#### Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0aldb9250-pd.html>

#### Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

### Contact Information

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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 0ALD

## Electric vehicle auxiliary fuses

0ALD 800/750Vdc

RoHS Compliant

### Features

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

### Physical Specifications



UK  
CA CE

|           |                                                                                                                                                                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Body : Ceramic                                                                                                                                                                                                                                                                          |
|           | Terminals : Stud Mount, Bottom Terminal (Tin Plated Copper);<br>Wave solder, 2-pin PCB mount (Tin Plated Copper);<br>Wave solder, 1-pin PCB mount (Silver Plated Brass).                                                                                                                |
| Marking   | On Fuse :                                                                                                                                                                                                                                                                               |
|           | "bel", "0ALD", "Voltage Rating", "Current Rating"                                                                                                                                                                                                                                       |
|           | On Label :                                                                                                                                                                                                                                                                              |
|           | "bel", "0ALDX", "Current Rating", "Voltage Rating", "Interrupting Rating",<br>and "  ", "  "(China RoHS compliant). |

### Ratings

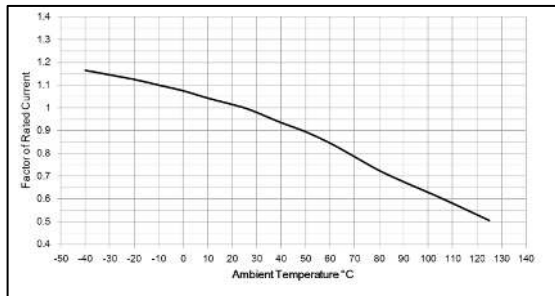
| Ampere Rating / Voltage Rating    | Ampere Range / Volt<br>@ I.R. ability*         |
|-----------------------------------|------------------------------------------------|
| 5A-40A / 800V DC<br>50A / 750V DC | 5A-40A / 800V @ 50KA DC<br>50A / 750V @50KA DC |
| *I.R.=DC Interrupting Rating      |                                                |

### Electrical Characteristics

| % of Ampere<br>Rating (A) | Operating Time (Unit: sec) |      |
|---------------------------|----------------------------|------|
|                           | Min.                       | Max. |
| 200%                      | 0.5                        | 100  |
| 300%                      | 0.1                        | 15   |
| 500%                      | 0.05                       | 1    |

## Temperature Re-Rating Curve

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

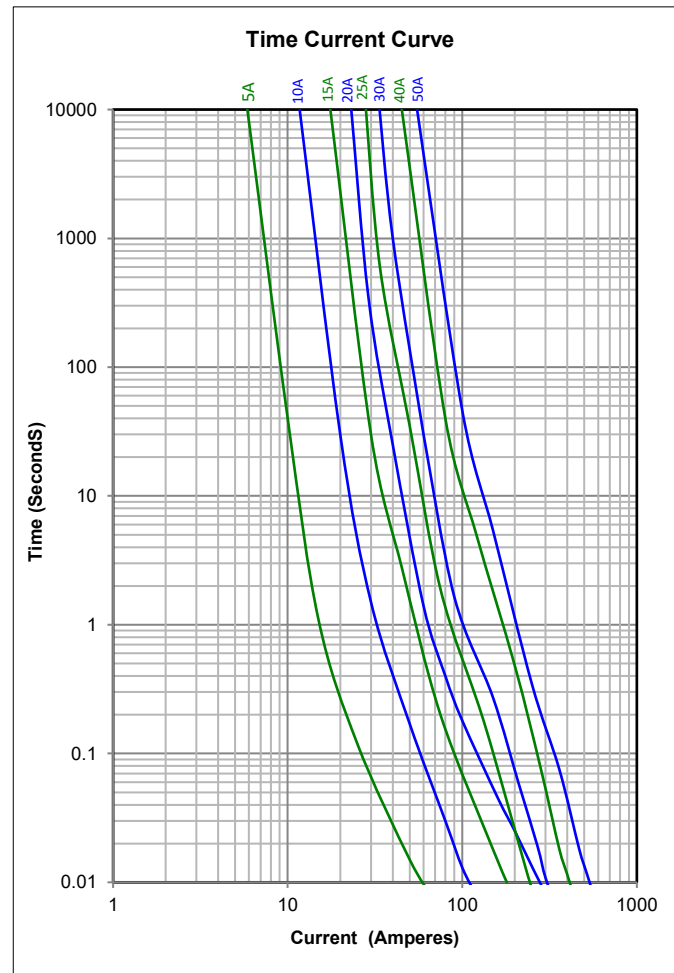


Storage Temperature:  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$

## Soldering Parameter for Through hole series:

- Wave soldering: Solder Pot Temperature:  $260^{\circ}\text{C}$  Max.
- Solder Dwell Time: 10s Max.
- Hand-Soldering (not recommended):
- Solder Iron Temperature:  $350^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- Heating Time: 5s Max.

## Average Time Current Curve



## Electrical Specifications

| Part Number  | Ampere Rating | Voltage and Interrupting Ratings                                           | Typical cold resistance (mOhms) | Typical voltage drop (mV) | Typical pre-arcing $I^2t$ (A <sup>2</sup> sec) |
|--------------|---------------|----------------------------------------------------------------------------|---------------------------------|---------------------------|------------------------------------------------|
| 0ALDx5000-xx | 5A            | See Table of Ratings above for Voltage and associated Interrupting Ratings | 31                              | 190                       | 35                                             |
| 0ALDx9100-xx | 10A           |                                                                            | 12.5                            | 130                       | 120                                            |
| 0ALDx9150-xx | 15A           |                                                                            | 7.2                             | 140                       | 405                                            |
| 0ALDx9200-xx | 20A           |                                                                            | 5.2                             | 154                       | 1000                                           |
| 0ALDx9250-xx | 25A           |                                                                            | 4.0                             | 145                       | 560                                            |
| 0ALDx9300-xx | 30A           |                                                                            | 3.1                             | 150                       | 880                                            |
| 0ALDx9400-xx | 40A           |                                                                            | 2.2                             | 148                       | 1760                                           |
| 0ALDx9500-xx | 50A           |                                                                            | 1.6                             | 155                       | 3250                                           |

Consult manufacturer for other ratings

\* Temperature Rise :  $\leq 50\text{K}$  with 70% of rated current

\* DC Cold Resistance are measured at  $<10\%$  of rated current in ambient temperature of  $25^{\circ}\text{C}$

\*Typical Pre-arcing  $I^2t$  are measured at 10In Current.

## Fuse FGNO Explanation

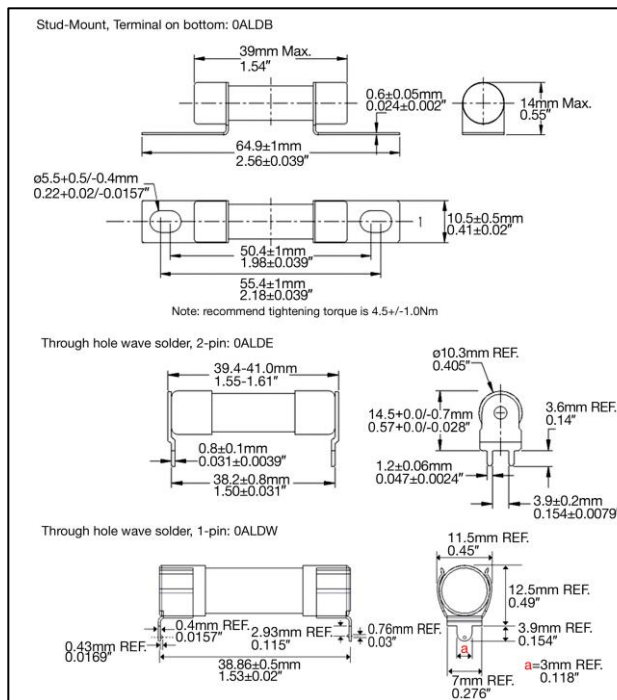
0ALD X [XXXX] -XX

0ALDB=0ALDB; 0ALDE=0ALDE; 0ALDW=0ALDW

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

| Decimal | Amps | Bel FGNO[XXXX] |
|---------|------|----------------|
| 5       | 5    | 5000           |
| 10      | 10   | 9100           |
| 15      | 15   | 9150           |
| 20      | 20   | 9200           |
| 25      | 25   | 9250           |
| 30      | 30   | 9300           |
| 40      | 40   | 9400           |
| 50      | 50   | 9500           |

## Mechanical Dimensions



## Ordering Information

**0ALD X XXXX - XX**

**FUSE TYPE** \_\_\_\_\_  
0ALD

**Mounting Tab Style** \_\_\_\_\_  
B=For Stud-Mount, Terminal on bottom  
E=For Through hole wave solder, 2-pin  
W=For Through hole wave solder, 1-pin

**AMPERE RATING** \_\_\_\_\_  
Refer to fuse FGNO explanation table

**PACKING / QUANTITY CODE** \_\_\_\_\_  
PD (for 0ALDB, Stand Mount)  
P = Plastic tray pack  
D = 40pcs/tray, 400pcs/carton box

**BE (for 0ALDE and 0ALDW, Through hole wave solder)**  
B = Bulk pack  
E = 40pcs/Tray, 520pcs (13 Tray) / carton box (for 0ALDE)  
E = 20pcs/inner box, 540pcs / carton box (for 0ALDW)

## Packaging

| Packaging Option              | Quantity                                                    | Packaging Code |
|-------------------------------|-------------------------------------------------------------|----------------|
| Plastic tray pack (for 0ALDB) | 40pcs / plastic tray, 400pcs (10 plastic tray) / carton box | PD             |
| Bulk pack (for 0ALDE)         | 40pcs/Tray, 520pcs (13 Tray) / carton box                   | BE             |
| Bulk pack (for 0ALDW)         | 20pcs/inner box, 540pcs (27 inner boxes) / carton box       | BE             |