

# Type 0ADEC / 0ADEP

## Fast-Acting Fuse Series

**HF** **Pb** 0ADEC/0ADEP Series, 6x32mm Ceramic Tube Fast-Acting Fuse

RoHS Compliant

### Description

A 500 VAC/VDC rated ceramic tube cartridge fuse in a compact 6.3 x 32mm package,

### Features

- Fast-acting, high breaking capacity fuse
- Available in cartridge and pigtail axial lead
- Designed to UL 248-14
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free
- Lead Free

### Applications

- Industrial Power Supplies
- DC/DC modules

LEAD FREE = **Pb**  
HALOGEN FREE = **HF**



UK  
CA c **UL** US **CE**

### Physical Specifications

|           |                                                                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Body : Ceramic                                                                                                                                                              |
|           | Cap: Silver Plated Caps                                                                                                                                                     |
|           | Pigtail Leads : Tin Plated Copper                                                                                                                                           |
| Marking   | On Fuse :                                                                                                                                                                   |
|           | "bel"                                                                                                                                                                       |
|           | "0ADE", "Current Rating", "Voltage Rating", "Appropriate Safety Logos"                                                                                                      |
|           | On Label :                                                                                                                                                                  |
|           | "bel", "0ADEC" or "0ADEP", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " <b>RoHS</b> ", " <b>CE</b> " (China RoHS compliant). |

### Electrical Characteristics

| Testing Current | Opening Time |
|-----------------|--------------|
|                 | Maximum      |
| 150%            | 30 minutes   |
| 200%            | 5 minutes    |
| 300%            | 10 seconds   |

### Safety Agency Approvals

| Safety Agency                                           | Safety Agency Certificate | Ampere Rating / Voltage Rating | Ampere Range / Volt @ I.R. ability*   |
|---------------------------------------------------------|---------------------------|--------------------------------|---------------------------------------|
| <b>c</b> <b>UL</b> <b>US</b>                            | E20624                    | 10A-30A/500V AC/DC             | 10A-30A/500V@30KA AC<br>/500V@20KA DC |
| *I.R.= Interrupting Rating = Short Circuit Rating(Amps) |                           |                                |                                       |

## Environmental Specifications

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| Operating Temperature | -50°C to +105°C                                                            |
| Terminal Strength     | MIL-STD-202G, Method 211 Test Condition A                                  |
| Lead Solderability    | MIL-STD-202, Method 208                                                    |
| Mechanical Vibration  | MIL-STD-202, Method 201                                                    |
| Thermal Shock         | MIL-STD-202, Method 107 Test Condition B ( 5 cycles -65°C to +125°C )      |
| Humidity              | MIL-STD-202, Method 103, Test Condition A ( 95%RH and 40°C for 240 hours ) |

## Electrical Specifications

| Part Number   | Ampere Rating | Typical Cold Resistance (mOhms) | Voltage and Interrupting Ratings                                               | Typical Pre-Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) | Total I <sup>2</sup> t (A2sec) |
|---------------|---------------|---------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------|
| 0ADEC9100-XX  | 10A           | 17.1                            | See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings | 100                                                      | 135                            |
| 0ADEP9100- XX |               |                                 |                                                                                |                                                          |                                |
| 0ADEC9120- XX | 12A           | 12.3                            |                                                                                | 140                                                      | 180                            |
| 0ADEP9120- XX |               |                                 |                                                                                |                                                          |                                |
| 0ADEC9150- XX | 15A           | 8.0                             |                                                                                | 66                                                       | 155                            |
| 0ADEP9150- XX |               |                                 |                                                                                |                                                          |                                |
| 0ADEC9160- XX | 16A           | 8.0                             |                                                                                | 62                                                       | 150                            |
| 0ADEP9160- XX |               |                                 |                                                                                |                                                          |                                |
| 0ADEC9200- XX | 20A           | 5.5                             |                                                                                | 120                                                      | 280                            |
| 0ADEP9200- XX |               |                                 |                                                                                |                                                          |                                |
| 0ADEC9250- XX | 25A           | 4.6                             |                                                                                | 200                                                      | 470                            |
| 0ADEP9250- XX |               |                                 |                                                                                |                                                          |                                |
| 0ADEC9300- XX | 30A           | 3.7                             |                                                                                | 270                                                      | 630                            |
| 0ADEP9300- XX |               |                                 |                                                                                |                                                          |                                |

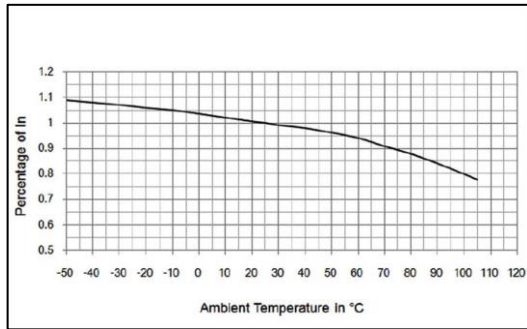
Consult manufacturer for other ratings

\*DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

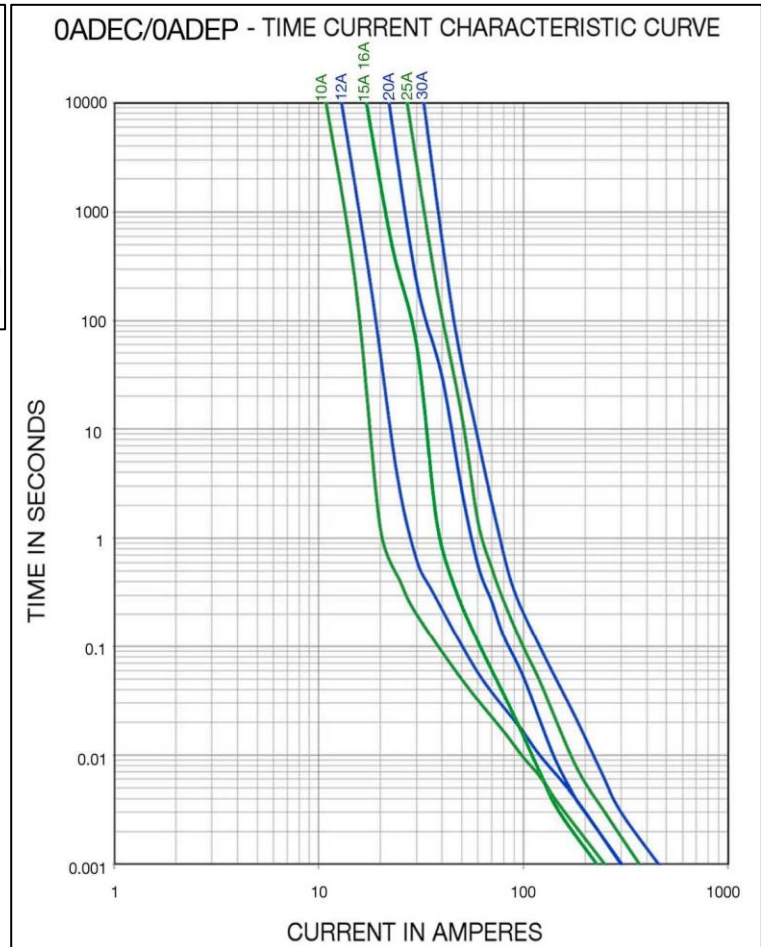
\*Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current

\*Total I<sup>2</sup>t are measured at 500V IR test

## Temperature Re-Rating Curve



## Average Time Current Curve



## Soldering parameters for Pigtail Type

Wave Soldering Compatible: (260°C, 10 sec max)

Hand-Solder:

Solder Iron Temperature: (350°C+/-5°C)

Heating Time:( 5 sec max)

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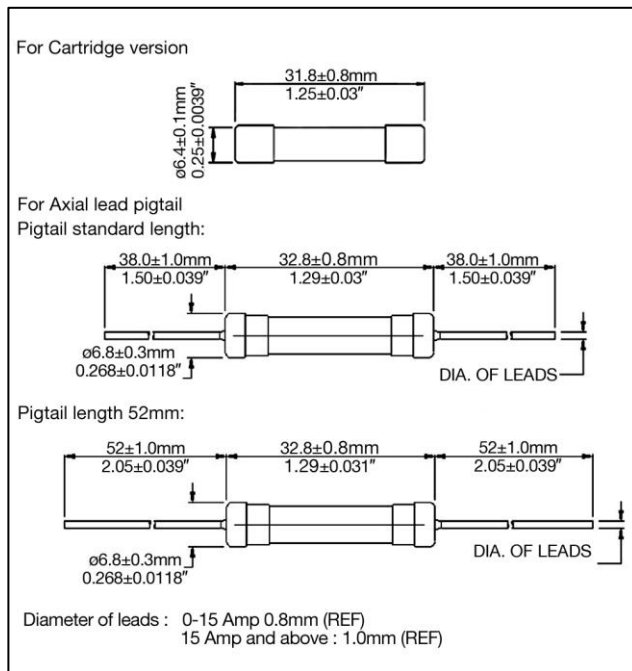
## Fuse FGNO Explanation

0ADE X [XXXX] -XX

0ADEC/P=0ADEC/P; [XXXX]=Ampere Rating; XX=See Ordering Information as below

| Amps | Bel FGNO[XXXX] |
|------|----------------|
| 10   | 9100           |
| 12   | 9120           |
| 15   | 9150           |
| 16   | 9160           |
| 20   | 9200           |
| 25   | 9250           |
| 30   | 9300           |

## Mechanical Dimensions



## Ordering Information

0ADE X XXXX - X X

FUSE TYPE \_\_\_\_\_

0ADE

MOUNTING TAB STYLE \_\_\_\_\_

C = For Cartridge version  
P = For Axial lead pigtail

AMPERE RATING \_\_\_\_\_

Refer to fuse FGNO explanation table

PACKAGING CODE \_\_\_\_\_

B = Bulk (Cartridge version)  
R = Bulk (Pigtail standard length)  
L = Bulk (Pigtail long length)

QUANTITY CODE \_\_\_\_\_

E = 1k / box

## Packaging

| Packaging Option               | Quantity | Packaging Code |
|--------------------------------|----------|----------------|
| Bulk                           | 1000     | BE             |
| Bulk (Pigtail standard length) | 1000     | RE             |
| Bulk (Pigtail long length)     | 1000     | LE             |



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](http://belfuse.com/circuit-protection)

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