# Type 0AKM

## Electric Vehicle Auxiliary Fuses

0AKM Series

RoHS Compliant

## Description

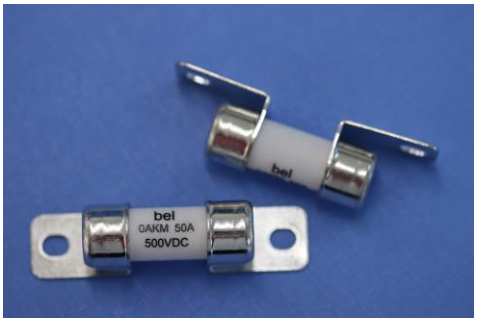
500VDC rated ceramic tube fuse

## Features

- Design to EV fuse standard UL248-20
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Excellent DC performance
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

## Applications

EV/HEV/ESS Applications




UK CA CE

## Physical Specifications

| | |
|---|---|
| Materials | Body : Ceramic |
| | Terminals : Tin Plated Copper |
| Marking | On Fuse : |
| | "bel","0AKM" |
| | "Current Rating", "Voltage Rating" |
| | On Label : |
| | "bel", "0AKMX", "Current Rating", "Voltage Rating", "Interrupting Rating", and " ", " "(China RoHS compliant). |

## Ratings

| Ampere Rating / Voltage Rating | Ampere Range / Volt @ I.R. ability* |
|---|---|
| 50A-80A / 500V DC<br>420V AC | 50A-80A / 500V @ 20kA DC<br>420V @ 6kA AC |
| *I.R.= Interrupting Rating = Short Circuit Rating(Amps) | |

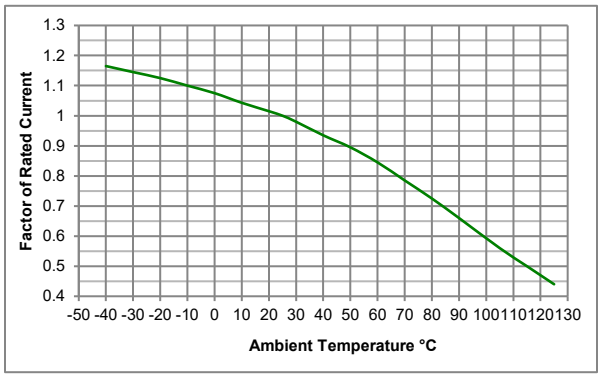
## Electrical Specifications

| Part Number | Rated Current | Voltage and Interrupting Ratings | I²t (A²sec) | | Power Loss@0.5In (W) |
|---|---|---|---|---|---|
| | | | Pre-arcing | Total @500Vdc | |
| 0AKMx9500-xx | 50A | See Table of Ratings for Voltage and associated Interrupting Ratings | 1560 | 4050 | 1.35 |
| 0AKMx9600-xx | 60A | | 2470 | 6290 | 1.70 |
| 0AKMx9700-xx | 70A | | 2850 | 7120 | 1.80 |
| 0AKMx9800-xx | 80A | | 4000 | 10300 | 1.90 |

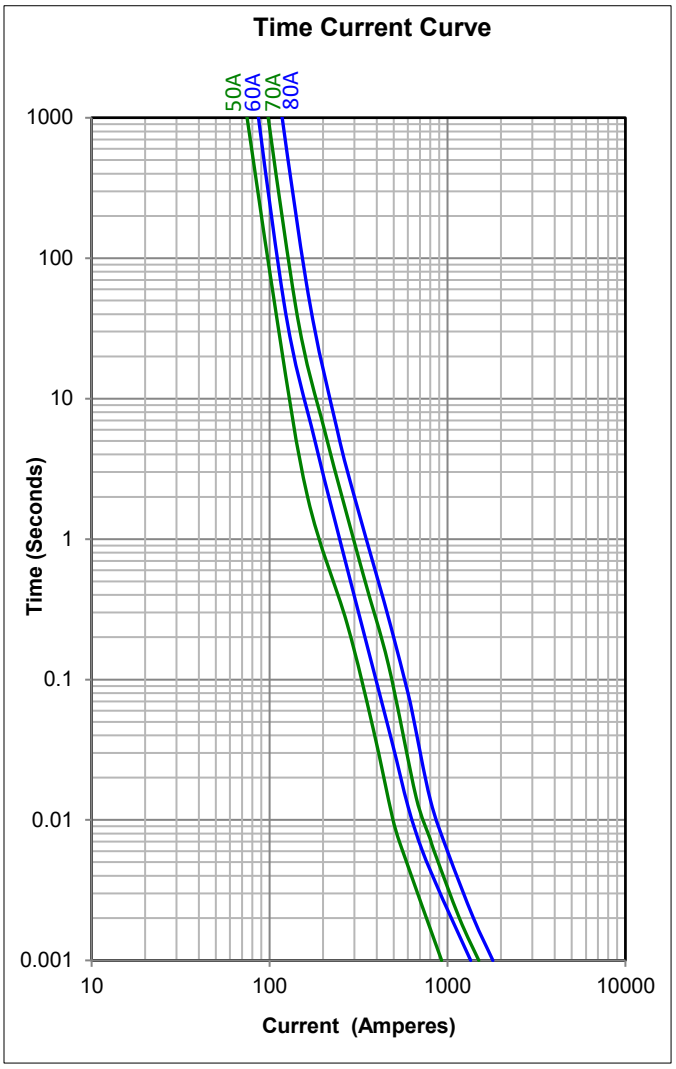
Consult manufacturer for other ratings

## Temperature Rerating Curve

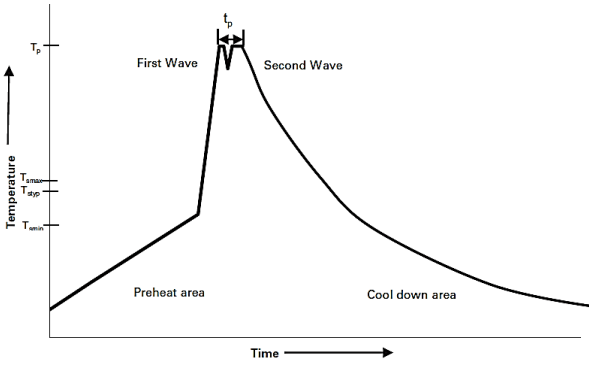
Operating Temperature: -40°C to +125°C,
with proper rerating factor applied




## Average Time Current Curve




## Wave Soldering profile




**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<br>5 seconds max each wave |
| Ramp-down rate | | ~ 2 K/s min<br>~3.5 K/s typ<br>~5 K/s max |
| Time 25°C to 25°C | | 4 minutes |

*** Reflow soldering not recommended**

Specifications subject to change without notice

**Bel Fuse Inc.**
300 Executive Drive, Suite 300,
West Orange, NJ 07052 USA

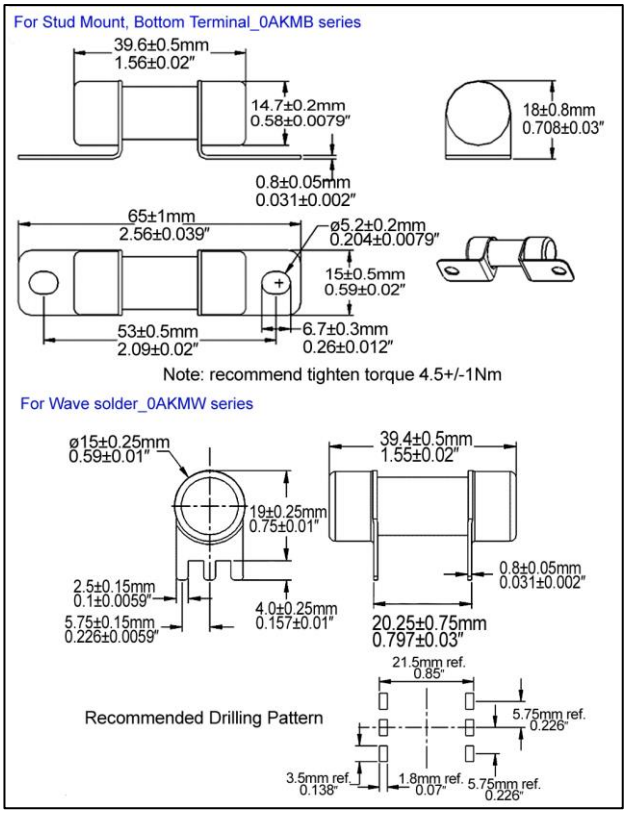
+1 201.432.0463
Bel.US.CS@belf.com
belfuse.com/circuit-protection

© 2026 Bel Fuse, Inc.

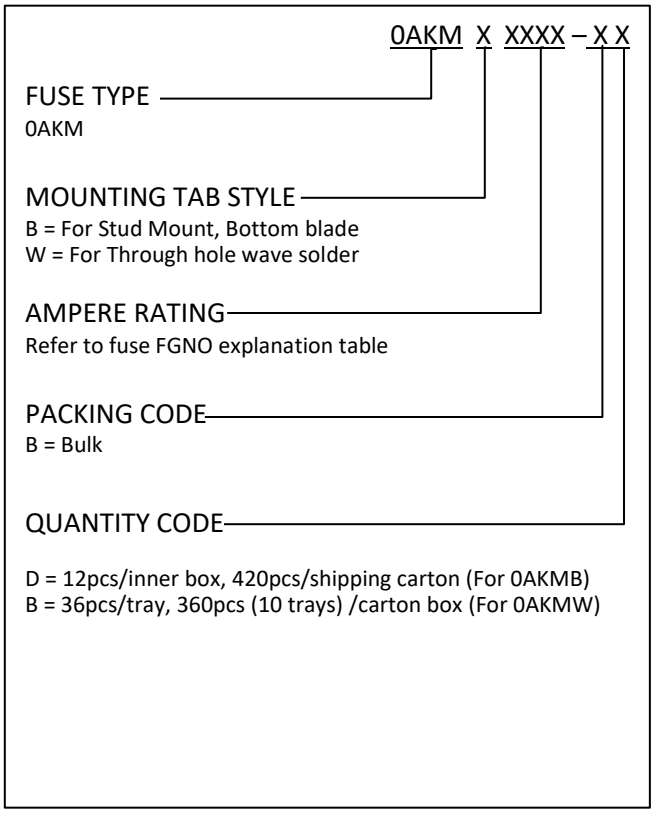
## Fuse FGNO Explanation
### 0AKM X [XXXX] -XX
**0AKMB/0AKMW=0AKMB/0AKMW; [XXXX]=Ampere Rating; XX=See Ordering Information as below**

| Amps | Bel FGNO[XXXX] |
|---|---|
| 50A | 9500 |
| 60A | 9600 |
| 70A | 9700 |
| 80A | 9800 |

## Mechanical Dimensions




## Ordering Information




## Packaging

| Packaging Option | Quantity | Packaging Code |
|---|---|---|
| Bulk(For 0AKMB) | 12pcs/inner box, 420pcs/shipping carton | BD |
| Bulk(For 0AKMW) | 36pcs/tray, 360pcs (10 trays) /carton box | BB |



**Bel Fuse Inc.**
300 Executive Drive, Suite 300,
West Orange, NJ 07052 USA

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

© 2026 Bel Fuse, Inc.