

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	0AKMB9800-BD
Manufacturer:	Bel Fuse Inc.
Package:	Cylindrical, Blade Terminal (Bolt)
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0akmb9800-bd.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

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 0AKM

Electric Vehicle Auxiliary Fuses

0AKM Series

RoHS Compliant

Description

500VDC rated ceramic tube fuse

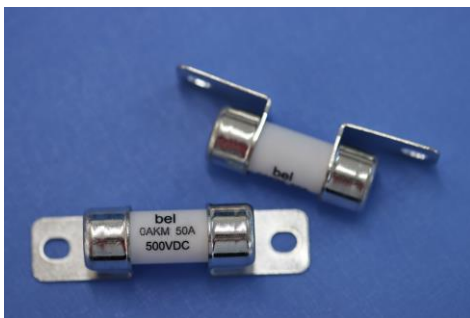
Features

- 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

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 "RoHS", "CE" (China RoHS compliant).

Ratings

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

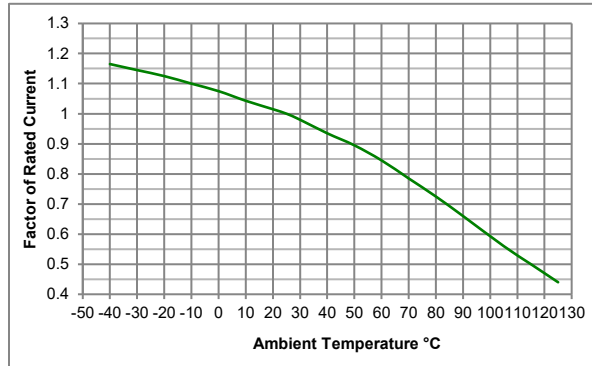
Electrical Specifications

Part Number	Rated Current	Voltage and Interrupting Ratings	I ² t (A ² sec)		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

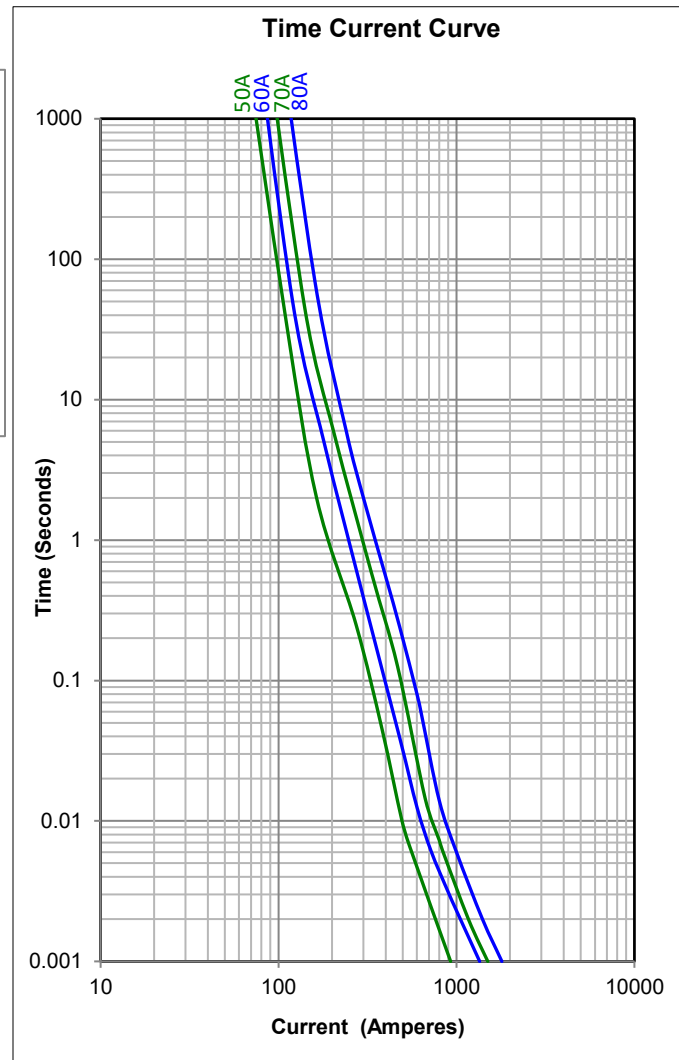
Consult manufacturer for other ratings

Temperature Derating Curve

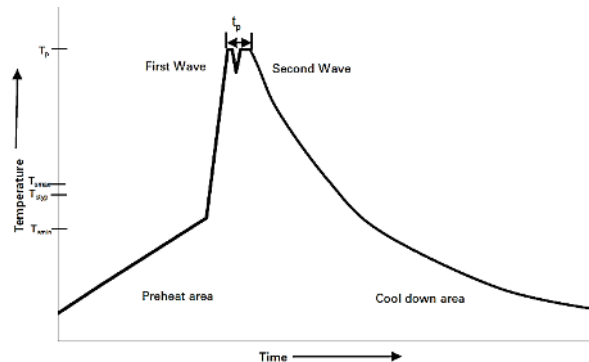
Operating Temperature: -40°C to $+125^{\circ}\text{C}$,
with proper derating factor applied



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 (T_p)*	$250^{\circ}\text{C} - 260^{\circ}\text{C}$
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

Type 0AKM

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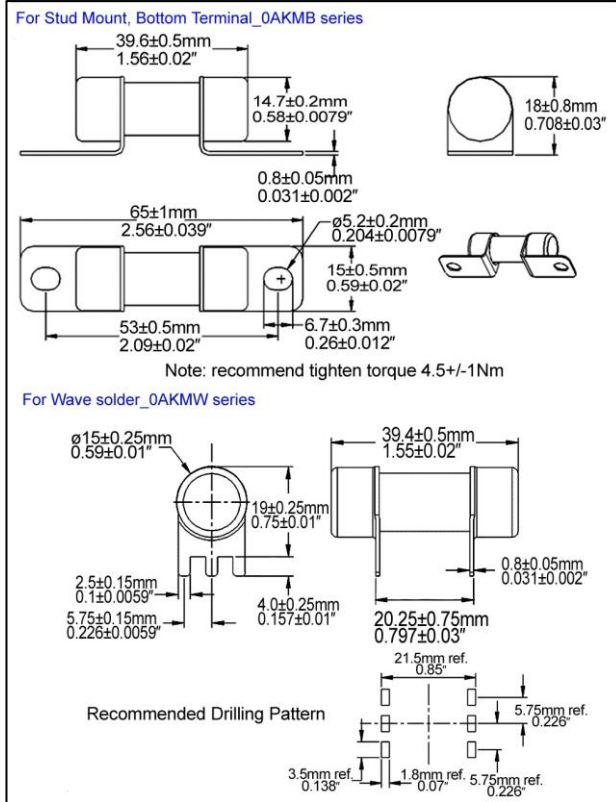
Fuse FGNO Explanation

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

0AKM X XXXX - XX

FUSE TYPE _____
0AKM

MOUNTING TAB STYLE _____
B = For Stud Mount, Bottom blade
W = For Through hole wave solder

AMPERE RATING _____
Refer to fuse FGNO explanation table

PACKING CODE _____
B = Bulk

QUANTITY CODE _____

D = 12pcs/inner box, 420pcs/shipping carton (For 0AKMB)
B = 36pcs/tray, 360pcs (10 trays) /carton box (For 0AKMW)

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