

Type 0AKM

Electric Vehicle Auxiliary Fuses

0AKM Series

RoHS Compliant

Description

500VDC rated ceramic tube fuse

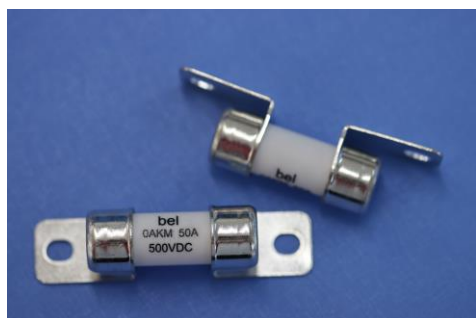
Features

- 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



UK
CA CE

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

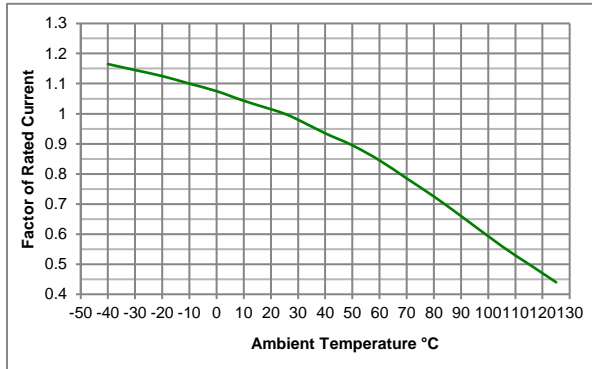
Electrical Specifications

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

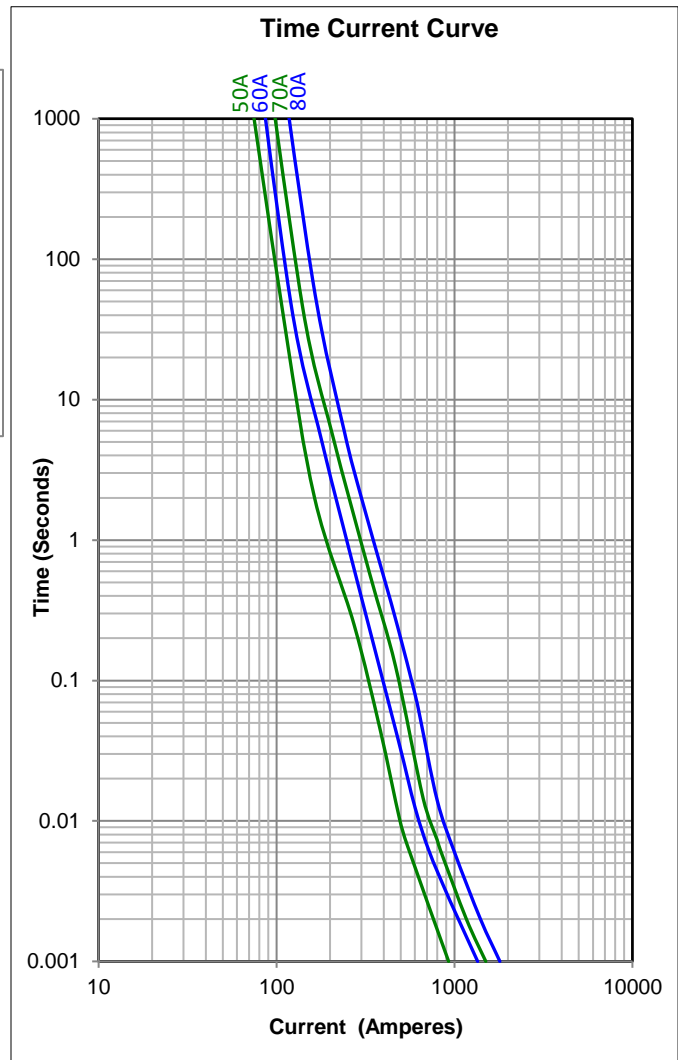
Consult manufacturer for other ratings

Temperature Derating Curve

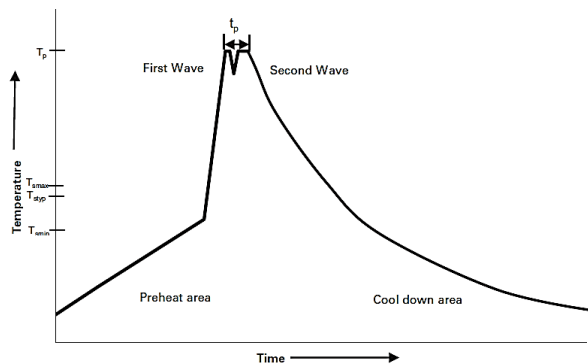
Operating Temperature: -40°C to +125°C,
with proper derating factor applied



Average Time Current Curve



Wave Soldering profile



Reference EN 61760-1:2006

Profile Feature	Lead (Pb) Free Solder
Preheat	<ul style="list-style-type: none"> 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°C – 260°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

* Reflow soldering not recommended



Specifications subject to change without notice

Bel Fuse Inc.
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West Orange, NJ 07052 USA

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

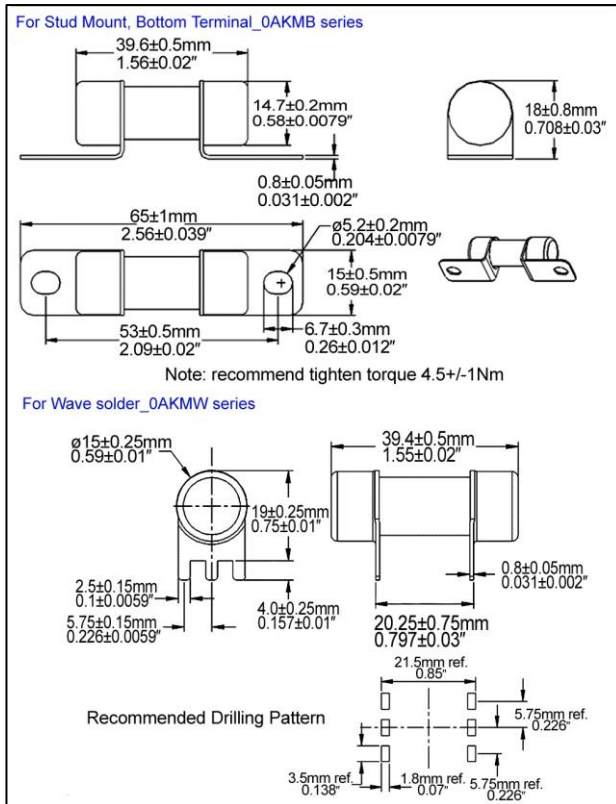
Fuse FGNO Explanation

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 _____
OAKM

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 = 20pcs/inner box, 480pcs/shipping carton (For 0AKMB)
B = 10pcs/inner box, 240pcs/carton box (For 0AKMW)

Packaging

Packaging Option	Quantity	Packaging Code
Bulk(For 0AKMB)	20pcs/inner box, 480pcs/shipping carton	BD
Bulk(For 0AKMW)	10pcs/inner box, 240pcs (24 inner boxes) /carton box	BB