

Type 0AKM

Electric Vehicle Auxiliary Fuses

0AKM Series

RoHS Compliant

Description

500VDC rated ceramic tube fuse

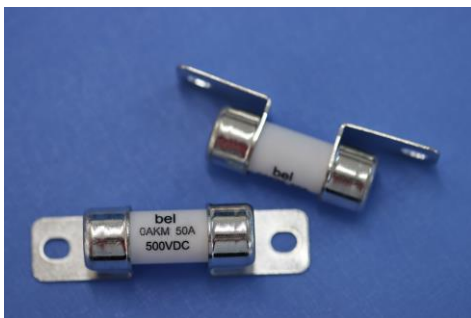
Features

- 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)	

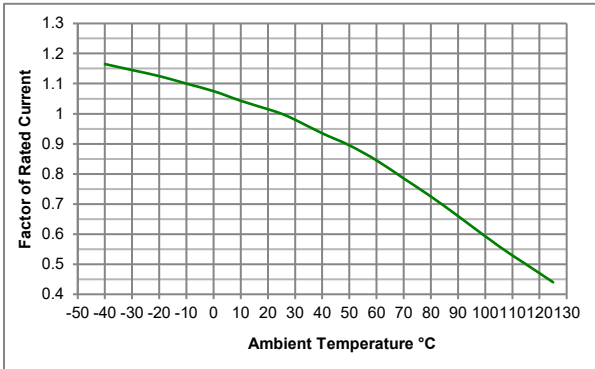
Electrical Specifications

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

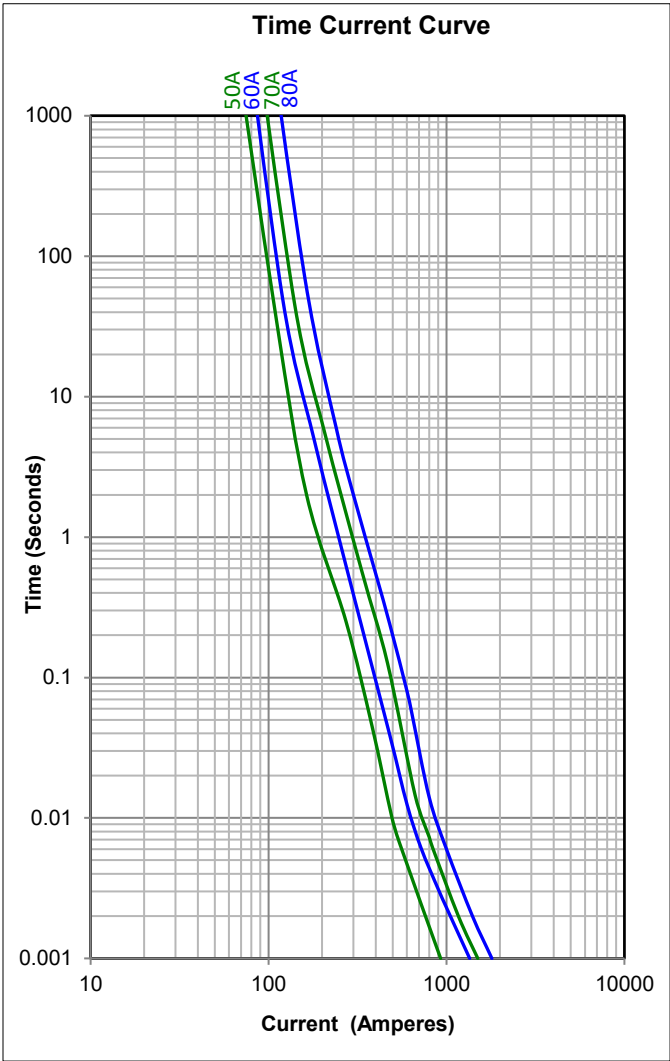
Consult manufacturer for other ratings

Temperature Derating Curve

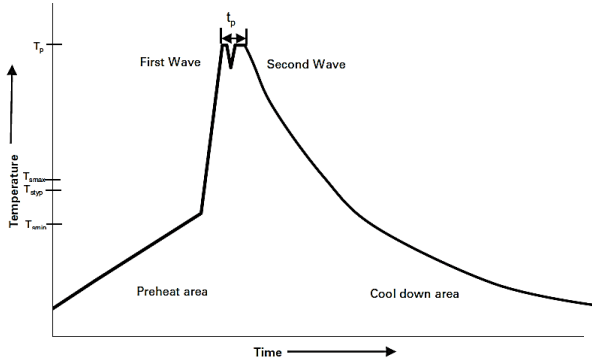
Operating Temperature: -40°C to $+125^{\circ}\text{C}$,
with proper derating factor applied



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	$\sim 2 \text{ K/s}$ min $\sim 3.5 \text{ K/s}$ typ $\sim 5 \text{ K/s}$ max
Time 25°C to 25°C	4 minutes

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Automotive Fuses](#) category:

Click to view products by [Bel Fuse](#) manufacturer:

Other Similar products are found below :

[ATM-4LP](#) [AFX-50](#) [299080](#) [MRBF-075](#) [ANX80-UL-20A](#) [ANX80-UL-25A](#) [ANX80-UL-30A](#) [ANX80-UL-35A](#) [ANX80-UL-40A](#) [ANX80-UL-60A](#) [APM-I-25A](#) [APR-25A](#) [ANX58-UL-20A](#) [ANX58-UL-25A](#) [ANX58-UL-35A](#) [ANX58-UL-40A](#) [ANX58-UL-50A](#) [ANM-4A](#) [ANM-25A](#) [APM-25A](#) [ACB2-PL-25A](#) [ANM58-15A](#) [ANM58-5A](#) [MIDA-50A](#) [CFNUT-1-4](#) [0498100.MXM6-CN](#) [0498080.MXM6-CN](#) [0ALDB5000-PD](#) [0ALDB9400-PD](#) [0ALDB9500-PD](#) [0ALDB9200-PD](#) [86147](#) [86125](#) [86105](#) [86146](#) [86144](#) [86101](#) [86145](#) [0200300](#) [02400106P](#) [0297002.WXT](#) [0297010.WXT](#) [0297015.WXT](#) [0297020.WXT](#) [0297025.WXT](#) [0297030.WXT](#) [029707.5WXT](#) [0602925](#) [0602930](#) [0602935](#)