Type 0AKK

Electric Vehicle Power Fuses

0AKK Series

RoHS Compliant

Description

1000 VDC rated ceramic tube fuse

Features

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

Applications

EV/HEV/ESS Application



Physical Specifications

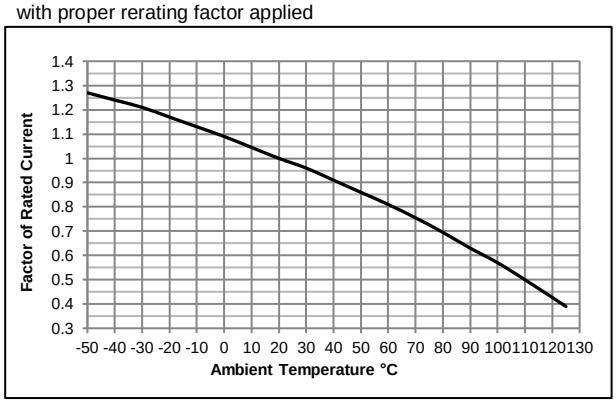
Materials	Body : Ceramic
	Terminals : Tin Plated Copper
Marking	On Fuse :
	“bel”,“0AKK”,“Current Rating”,
	“Interrupting Rating”, “Voltage Rating”, ”Appropriate Safety Logos”,”aR”
	On Label :
	"bel", "0AKK", "Current Rating", "Voltage Rating", "Interrupting Rating", ”Appropriate Safety Logos” and " ", " "(China RoHS compliant).

Safety Agency Approvals

Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
	E491441	63A-350A / 1000V DC	63A-350A / 1000V @ 50kA DC
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)			

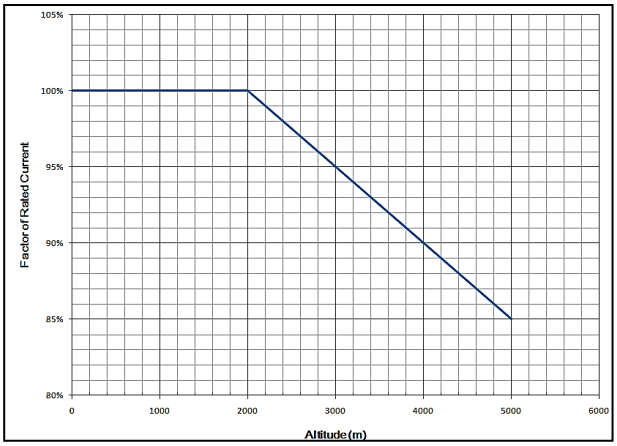
Temperature Re-Rating Curve

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

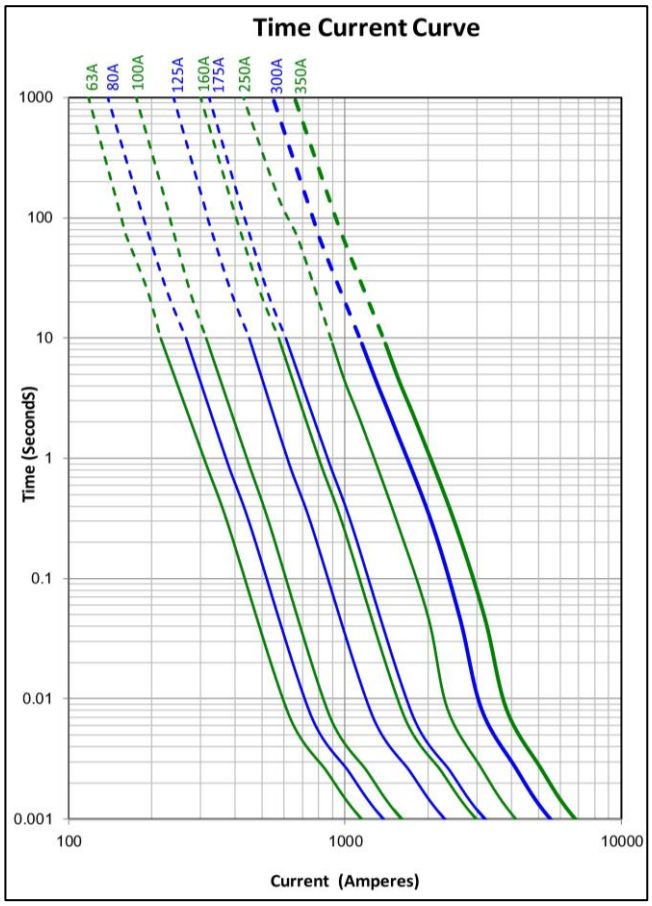


Re-rating with High altitude

The current load calculation formula of high altitude is:
I = In * (1- (h-2000)/100*(0.5/100)), where h is the altitude and does not exceed 5000



Average Time Current Curve



Electrical Specifications

Part Number	Rated Current	Voltage and Interrupting Ratings	I²t (A²sec)		0.5In Power loss (W)	1.0In Power loss (W)	Agency Approvals
			Pre-arcing	Total @ 1000Vdc			
0AKK-9630-xx	63A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	720	4360	2.6	15.2	Y
0AKK-9800-xx	80A		1050	6710	3.2	18.6	Y
0AKK-K100-xx	100A		1560	10500	3.9	22.4	Y
0AKK-K125-xx	125A		3200	22600	4.5	25	Y
0AKK-K160-xx	160A		5400	43200	5.7	33.5	Y
0AKK-K175-xx	175A		6250	50000	6.9	41.4	Y
0AKK-K250-xx	250A		9600	43680	8.7	52	Y
0AKK-K300-xx	300A		17000	85000	9.8	59	Y
0AKK-K350-xx	350A		29000	158000	13	68	Y

Consult manufacturer for other ratings
*Temperature Rise: <=50K with 50% of rated current

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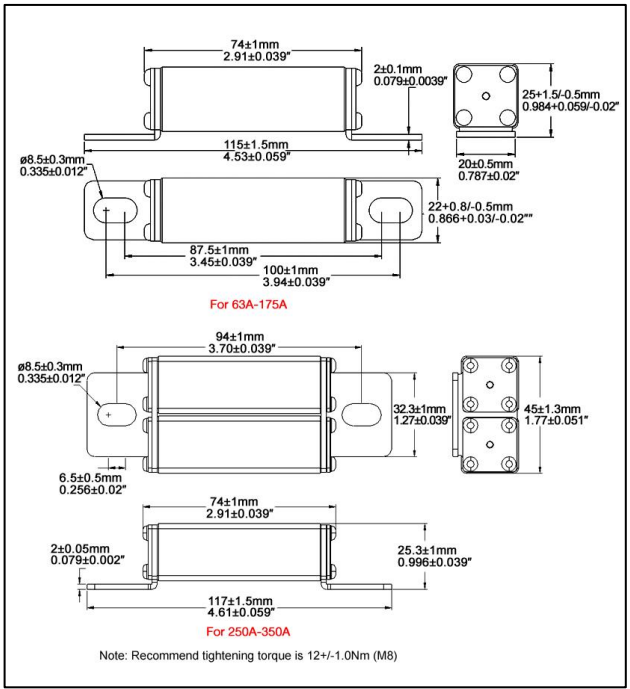
Fuse FGNO Explanation

0AKK - [XXXX] -XX [XXXX]=Ampere Rating; XX=See Ordering Information as below

Amps	Bel FGNO[XXXX]	Amps	Bel FGNO[XXXX]
63A	9630	175A	K175
80A	9800	250A	K250
100A	K100	300A	K300
125A	K125	350A	K350
160A	K160		

Mechanical Dimensions



Ordering Information

0AKK – XXXX – X X

FUSE TYPE
0AKK

AMPERE RATING
Refer to fuse FGNO explanation table

PACKAGING CODE
B = Bulk

QUANTITY CODE
B = 8pcs/inner box, 144pcs/shipping carton (for 63A-175A)
A = 4pcs/inner box, 72pcs/shipping carton (for 250A-350A)

Packaging

Packaging Option	Quantity	Packaging Code
Bulk (for 63A-175A)	8pcs/inner box, 144pcs/shipping carton	BB
Bulk (for 250A-350A)	4pcs/inner box, 72pcs/shipping carton	BA

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