

Type 0AKK Electric Vehicle Power Fuses

OAKK 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



UK c**Au**us C€

Physical Specifications

	Body : Ceramic
Materials	Terminals : Tin Plated Copper
	On Fuse :
	"bel","0AKK","Current Rating",
Marking	"Interrupting Rating", "Voltage Rating", "Appropriate Safety Logos", "aR"
Marking	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*		
c FM °us	E491441	63A-350A / 1000V DC	63A-350A / 1000V @ 50kA DC		
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)					

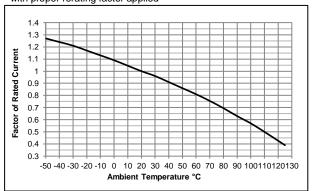


Specifications subject to change without notice

Type 0AKK

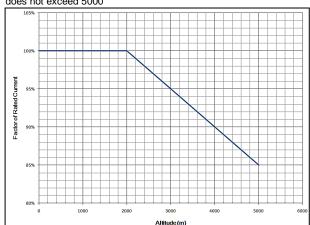
Temperature Re-Rating Curve

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

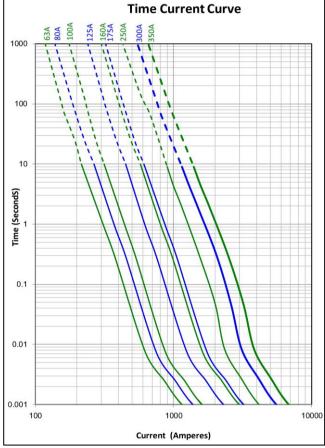


Re-rating with High altitude

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

Consult manufacturer for other ratings

^{*}Temperature Rise: <=50K with 50% of rated current



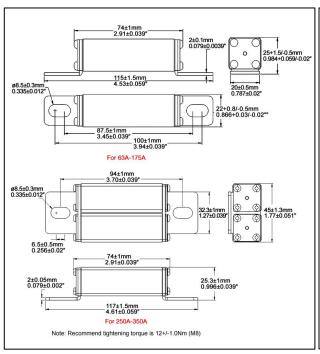
Specifications subject to change without notice

Bel Fuse Inc. 206 Van Vorst Street Jersey City, NJ 07302 USA +1 201.432.0463 Bel.US.CS@belf.com belfuse.com/circuit-protection Type 0AKK

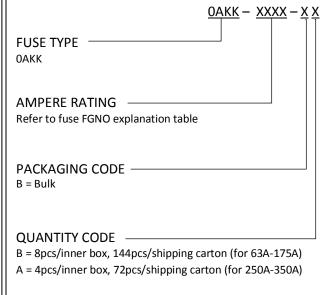
Fuse FGNO Explanation 0AKK - [XXXX] - XX [XXXX] = Ampere Rating; XX = See Ordering Information as below

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



Packaging

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



Specifications subject to change without notice

Rev. 0AKK Apr2023