

EOL - Last Time Buy Date is August 31, 2025 Not recommended for new applications.

Type 0AKC Electric Vehicle Power Fuses

OAKC Series RoHS Compliant

Description

The 0AKCX fuse is designed for EV or HEV application.

Features

- Fast-Acting fuse for EV/HEV
- 750Vdc ideal for EV or HEV application
- Excellent DC performance
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

Applications

EV/HEV Applications



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Physical Specifications

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

Ratings

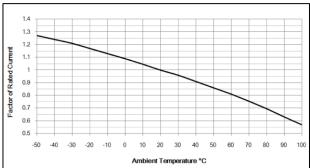
Voltage Rating (V)	Ampere Range / Volt @ I.R. ability*				
500A-630A / 750V DC	500A-630A / 750V @ 20kA DC				
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)					



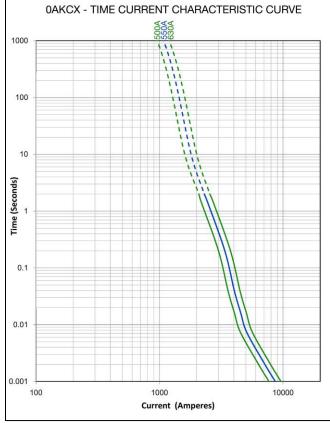
Specifications subject to change without notice

Type 0AKC

Temperature Re-Rating Curve



Average Time Current Curve



Electrical Specifications

Part Number	Ampere Rating	Voltage and Interrupting Ratings	Typical I2t (A2sec)		0.5In Power loss
			Pre-arcing	Total @ 750Vdc	(W)
0AKCxK500-xx	500A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	35000	180000	<20
0AKCxK550-xx	550A		49400	238000	<23
0AKCxK630-xx	630A		61000	295000	<25

Consult manufacturer for other ratings

Conditions for operation in service

Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

Normal temperature: -5°C to 40°C;

The altitude of the site of installation of the fuses does not exceed 2000 m above sea level;

The air is clean and the relative humidity does not exceed 50 % at the maximum temperature of 40 $^{\circ}\mathrm{C}$;

Higher relative humidities are permitted at lower temperatures, e.g. 90 % at 20 ℃;

Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

For operation conditions other than above, please contact manufacturer.



Specifications subject to change without notice

Bel Fuse Inc. 300 Executive Drive, Suite 300, West Orange, NJ 07052 USA +1 201.432.0463 Bel.US.CS@belf.com belfuse.com/circuit-protection

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

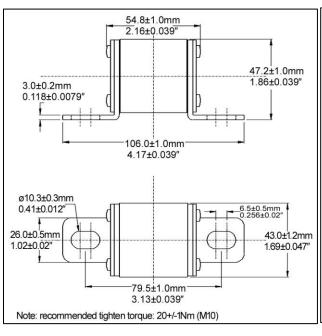
Type 0AKC

Fuse FGNO Explanation 0AKC X [XXXX] -XX

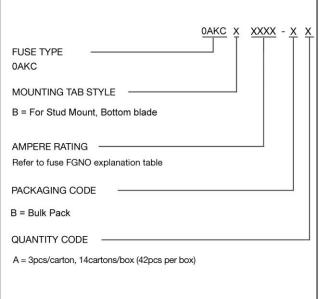
0AKCB=0AKCB; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Amps	Bel FGNO[XXXX]	
500	K500	
550	K550	
630	K630	

Mechanical Dimensions



Ordering Information



Packaging

Packaging Option	Quantity	Packaging Code
Bulk	3pcs/carton, 14cartons/box (42pcs per box)	ВА



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