

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	0AKCBK500-BA
Manufacturer:	Bel Fuse Inc.
Package:	Rectangular, Blade
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0akcbk500-ba.html>

Request a Quote:

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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

Type 0AKC

Electric Vehicle Power Fuses

0AKC 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



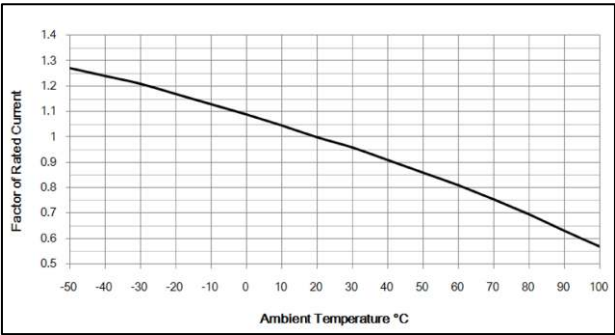
Physical Specifications

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).

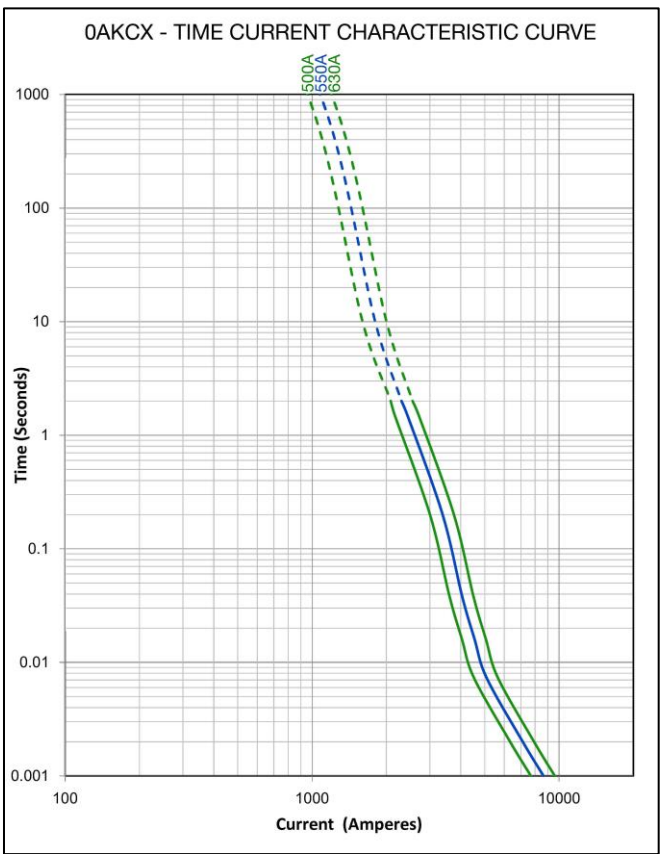
Ratings

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)	

Temperature Re-Rating Curve



Average Time Current Curve



Electrical Specifications

Part Number	Ampere Rating	Voltage and Interrupting Ratings	Typical I^2t (A ² sec)		0.5In Power loss (W)
			Pre-arcing	Total @ 750Vdc	
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

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

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 °C;

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

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

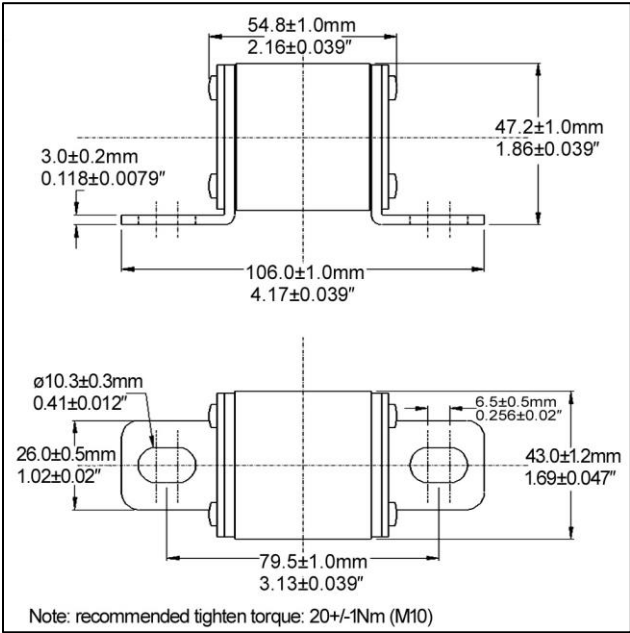
For operation conditions other than above, please contact manufacturer.

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

0AKC X XXXX - X X

FUSE TYPE
0AKC

MOUNTING TAB STYLE
B = For Stud Mount, Bottom blade

AMPERE RATING
Refer to fuse FGNO explanation table

PACKAGING CODE
B = Bulk Pack

QUANTITY CODE
A = 3pcs/carton, 14cartons/box (42pcs per box)

Packaging

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