

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



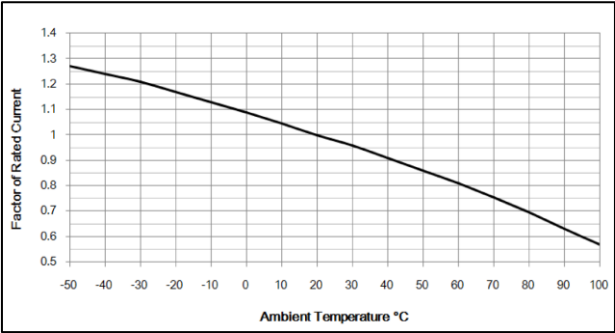
Physical Specifications

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).

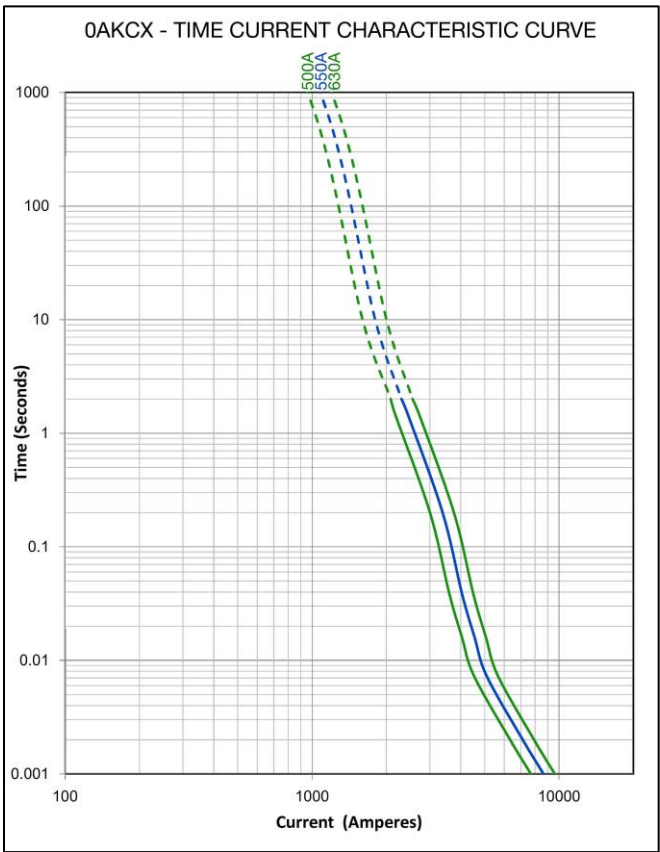
Ratings

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 ² t (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

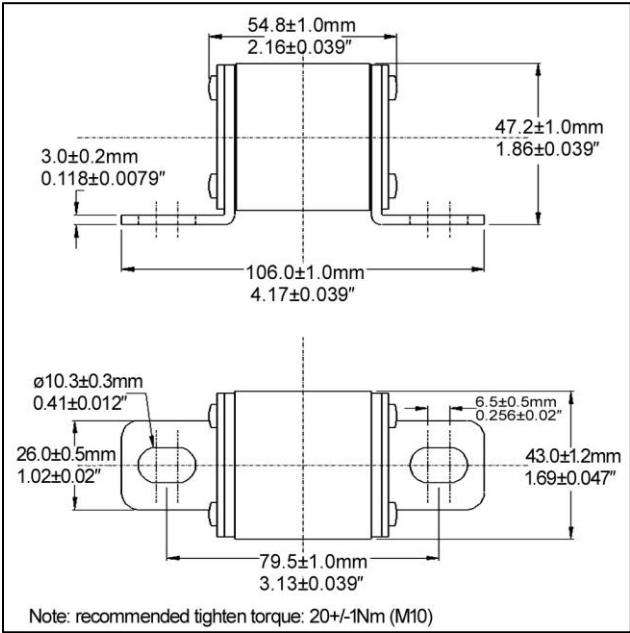
Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.
Normal temperature: -5°C to 40°C;
The altitude of the site of installation of the fuses does not exceed 2000 m above sea level;
The air is clean and the 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

Mouser Electronics

Authorized Distributor

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Bel:

[0AKCBK500-BA](#) [0AKCBK550-BA](#) [0AKCBK630-BA](#)