Type 0AKL

Electric Vehicle Auxiliary Fuses

0AKL Series

RoHS Compliant

Description

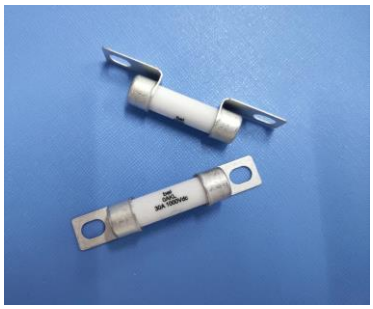
General purpose fuse for EV/HEV

Features

- Excellent DC performance
- Design refer to JASO D622:2006(for 10A-30A)
- Design to EV fuse standard UL248-20(for 40A-50A)
  Reliability performance design refer to ISO8820-8&GB/T31465.6(for 40A-50A)
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

Applications

EV or HEV application



Electrical Characteristics

% of Ampere Rating (A)	10A-30A		40A-50A	
	Operating Time (Unit: s)		Operating Time (Unit: s)	
	Min.	Max.	Min.	Max.
200%	1	300	0.5	100
300%	0.2	30	0.1	15
500%	0.1	10	0.05	1

Physical Specifications

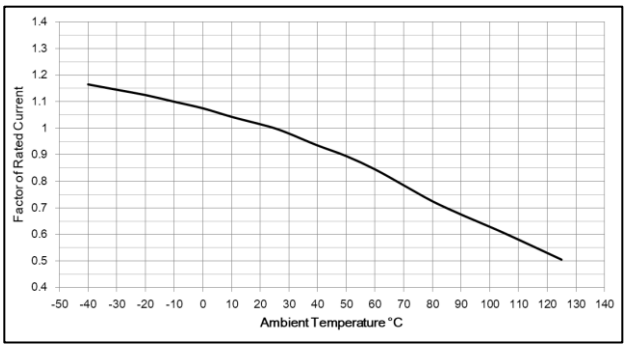
Materials	Body : Ceramic
	Terminals : 10A-30A: Stud Mount, Center Terminal (Tin Plated Brass); Stud Mount, Bottom Terminal (Tin Plated Copper); Wave solder, 1-pin PCB mount (Silver Plated Brass); Wave solder, 2-pin PCB mount (Tin Plated Copper). 40A-50A: Wave solder, 3-pin PCB mount (Tin Plated Copper); Stud Mount, Bottom Terminal (Tin Plated Copper)
Marking	On Fuse :
	“bel”,“0AKL”,
	“Current Rating”, “Voltage Rating”
	On Label :
	"bel", "0AKLX", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " ", " " "(China RoHS compliant).

Ratings

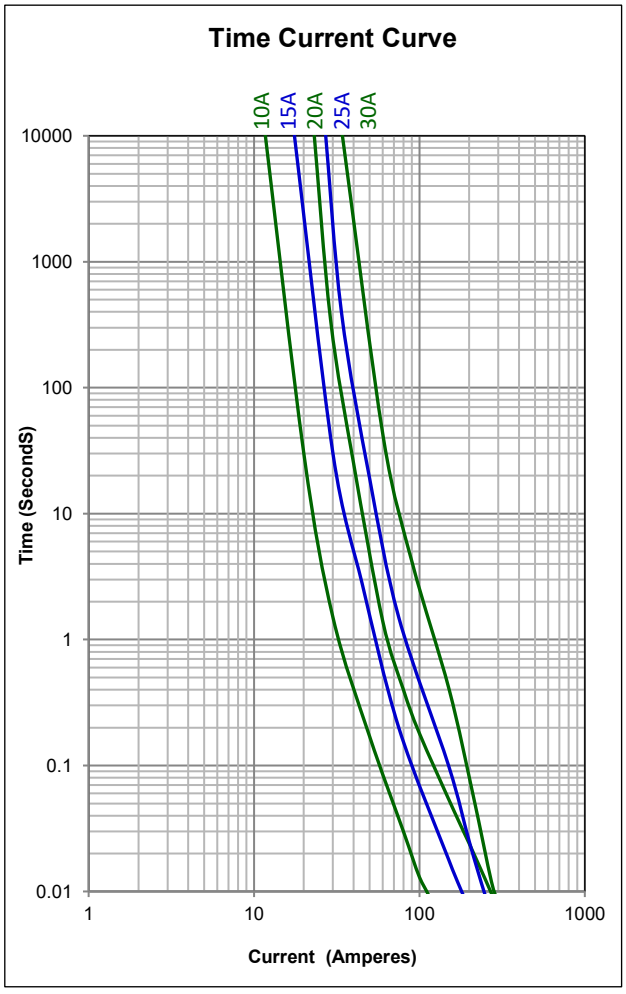
Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
10A-50A / 1000V DC	10A-50A / 1000V @ 50kA DC
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)	

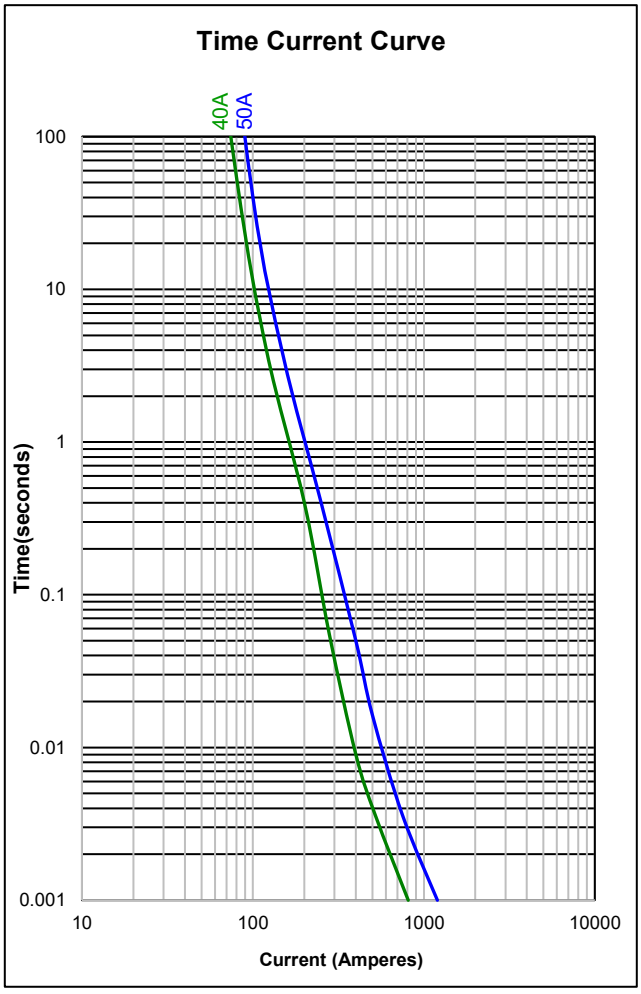
Temperature Re-Rating Curve

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



Average Time Current Curve





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Electrical Specifications

Part Number	Ampere Rating	Voltage and Interrupting Ratings	Typical cold resistance (mOhms)	Typical voltage drop (mV)		Typical pre-arcing I²t** (A²sec)
				At 0.5In	At 1.0In	
0AKLx9100-xx	10A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	12.5	60	130	120
0AKLx9150-xx	15A		7.2	60	140	405
0AKLx9200-xx	20A		5.2	80	154	1000
0AKLx9250-xx	25A		4.0	63	145	560
0AKLx9300-xx	30A		3.1	56	150	650

Consult manufacturer for other ratings
*Temperature Rise：<=50K with 70% of rated current
** Typical pre-arcing I^2t measured at 10In

Part Number	Ampere Rating	Voltage and Interrupting Ratings	Power Loss@0.5In (W)	Typical pre-arcing I²t** (A²sec)
0AKLx9400-xx	40A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	1.3	1440
0AKLx9500-xx	50A		1.45	4000

** Typical pre-arcing I^2t measured at 10In

Fuse FGNO Explanation
0AKL X [XXXX] -XX
0AKLA/B/E/W/=0AKLA/B/E/W; [XXXX]=Ampere Rating; XX=See Ordering Information as below

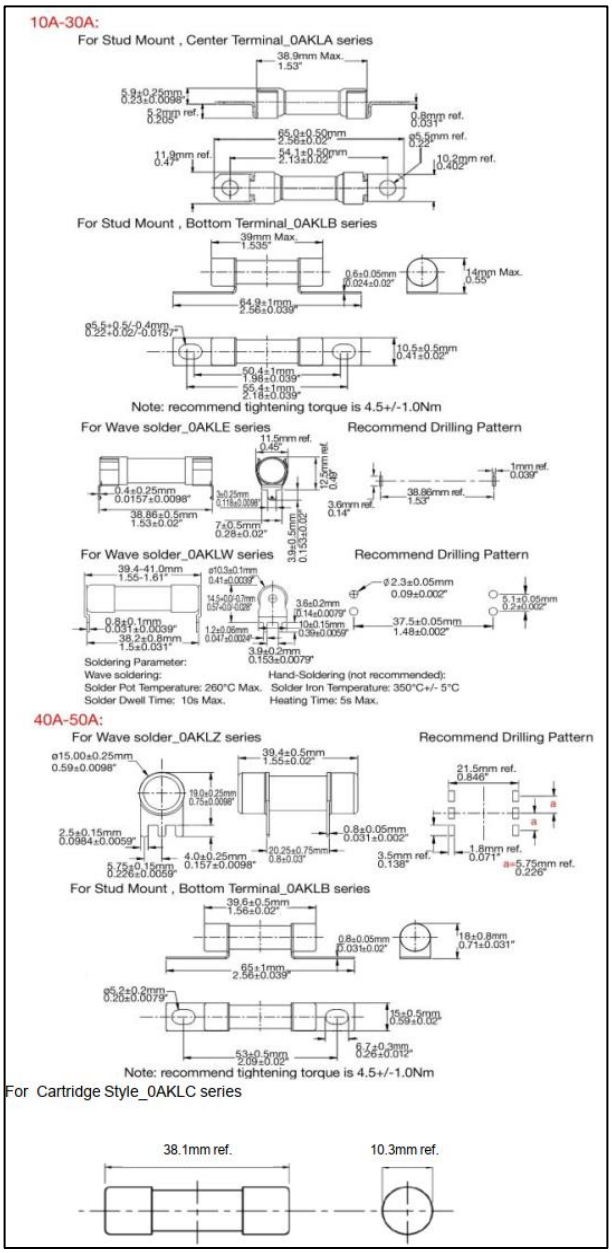
Amps	Bel FGNO[XXXX]	Amps	Bel FGNO[XXXX]
10	9100	25	9250
15	9150	30	9300
20	9200	40	9400
		50	9500

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Mechanical Dimensions



Ordering Information

0AKL X XXXX – X X

FUSE TYPE
0AKL

MOUNTING TAB STYLE
A = For Stud Mount, Center Terminal
B = For Stud Mount, Bottom Terminal
E = For Wave solder(1-pin PCB mount)
W = For 10A-30A Wave solder(2-pin PCB mount)
Z = For 40A-50A Wave solder(3-pin PCB mount)
C= For Cartridge style

AMPERE RATING
Refer to fuse FGNO explanation table

PACKING/QUANTITY CODE
BE (for 0AKLE, 10A-30A Wave solder, 1-pin PCB mount)
B = Bulk
E = 20pcs/inner box, 700pcs/carton box

BF (for 0AKLA, 10A-30A Stud mount, center terminal)
B = Bulk
F = 20pcs/inner box, 1200pcs/carton box

PD (for 0AKLB, 10A-30A Stud Mount, Bottom Terminal)
P = Plastic tray pack
D = 40pcs/tray, 400pcs/carton box

BE (for 0AKLW, 10A-30A Wave solder,2-pin PCB mount)
B = Bulk
E = 40pcs/Tray, 520pcs/carton box

BB (for 0AKLZ, 40A-50A Wave solder,3-pin PCB mount)
B = Bulk
B = 36pcs/tray, 360pcs (10 trays) /carton box

BC (for 0AKLB, 40A-50A Stud Mount, Bottom Terminal)
B = Bulk
C = 12pcs/inner box, 324pcs/carton box

BB (for 0AKLC,10A-30ACartridge style)
B = Bulk
B = 10pcs/inner box,1000pcs/ carton box

Packaging

Packaging Option	Quantity	Packaging Code
Plastic tray (For 0AKLB 10A~30A)	40 pcs/plastic tray, 400pcs/ carton box	PD
Bulk (For 0AKLE 10A~30A)	20pcs / inner box, 700pcs (35 inner boxes) / carton box	BE
Bulk (For 0AKLA 10A~30A)	20pcs / inner box, 1200pcs (60 inner boxes) / carton box	BF
Bulk (For 0AKLW 10A~30A)	40pcs/Tray, 520pcs (13 Tray) /carton box	BE
Bulk (For 0AKLZ 40A~50A)	36pcs/Tray, 360pcs (10 Trays) /carton box	BB
Bulk (For 0AKLB 40A~50A)	12pcs / inner box, 324pcs (27 inner boxes) / carton box	BC
Bulk (For 0AKLC 10A-30A)	10pcs/inner box, 1000pcs/ carton box	BB

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