Type 0ALK

10x32mm, High Current Fuse

0ALK Series | RoHS Compliant

Description

10x32mm cartridge fuse with 30A to 60A current ratings

Features

- High breaking capacity for high energy application
- Excellent DC performance
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

Applications

EV application

LEAD FREE =



Electrical Characteristics

1.0In	1 Hour, Minimum
3.5In	10 Seconds, Maximum

Physical Specifications

Materials	Body : Ceramic
	Cap: Copper alloy
	Lead Cap: Tin plated copper alloy
Marking	On Fuse :
	"bel", "0ALK", "Current Rating", "Interrupting Rating",
	"Voltage Rating", "Appropriate Safety Logos", "aR"
	On Label :
	"bel","0ALKX", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " "," " (China RoHS compliant).

Ratings

Safety Agency	Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
E491441	30A-60A / 500V DC / 500V AC / 420V AC / 277V AC	30A-60A / 500V @ 10kA DC / 500V @ 3kA AC / 277V @ 25kA AC** 30A-50A / 420V @ 10kA AC 60A / 420V @ 6kA AC

*I.R.= Interrupting Rating = Short Circuit Rating (Amps)

**Self-certified for Breaking Capacity 25kA @ 277VAC

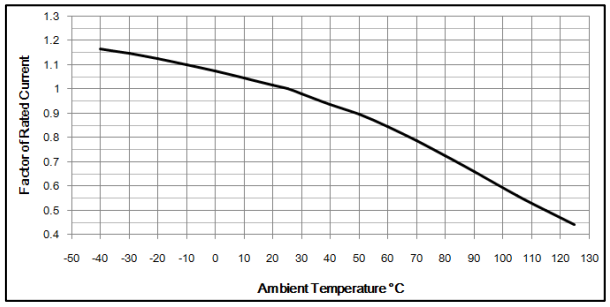
Product Characteristics

Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Lead Solderability	MIL-STD-202, Method 208
Mechanical Vibration	MIL-STD-202, Method 201
Thermal Shock	MIL-STD-202, Method 107,Test Condition B
Humidity	MIL-STD-202, Method 103, Test Condition A

Temperature Rerating Curve

Operating Temperature: -40°C to +125°C,

with proper rerating factor applied



Soldering Parameter

Wave Soldering:

Solder Pot Temperature: 260°c Max.

Solder Dwell Time: 10s Max.

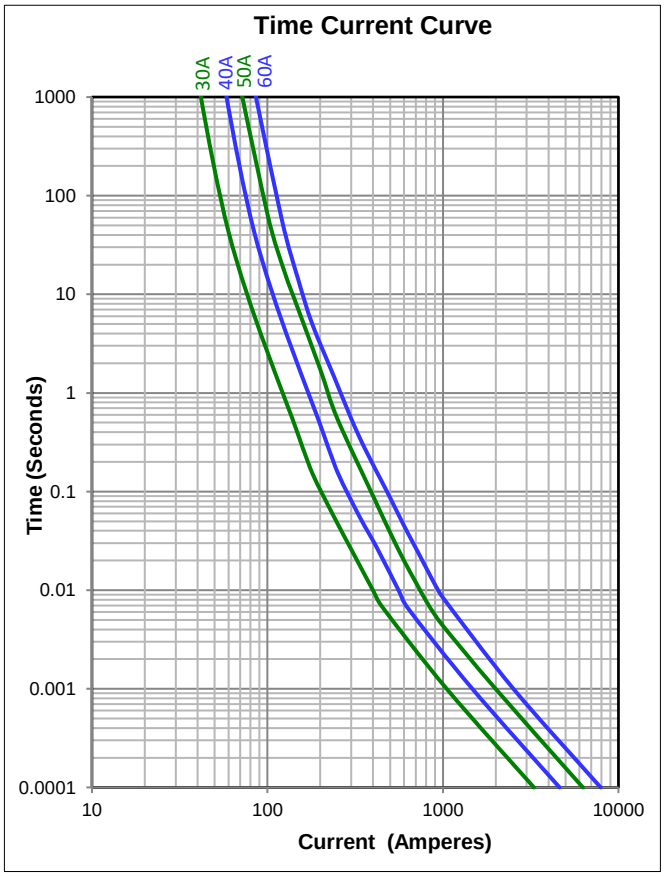
Hand-Solder (not recommended):

Solder Iron Temperature: 350°C+/- 5°C

Heating Time: 5s Max.

Average Time Current Curve

For Short Protection only, the Min. IR is 3.5In.



Electrical Specifications

Part Number	Ampere Rating	Voltage and Interrupting Ratings	Typical Cold. Resistance (mOhms)	Typical Pre-Arcing I²t (A²Sec)
0ALKx9300-xx	30A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	3.0	1100
0ALKx9400-xx	40A		2.2	2150
0ALKx9500-xx	50A		1.6	3930
0ALKx9600-xx	60A		1.3	6230

Consult manufacturer for other ratings

DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25℃

Temperature Rise: less than 50K with 0.5In current

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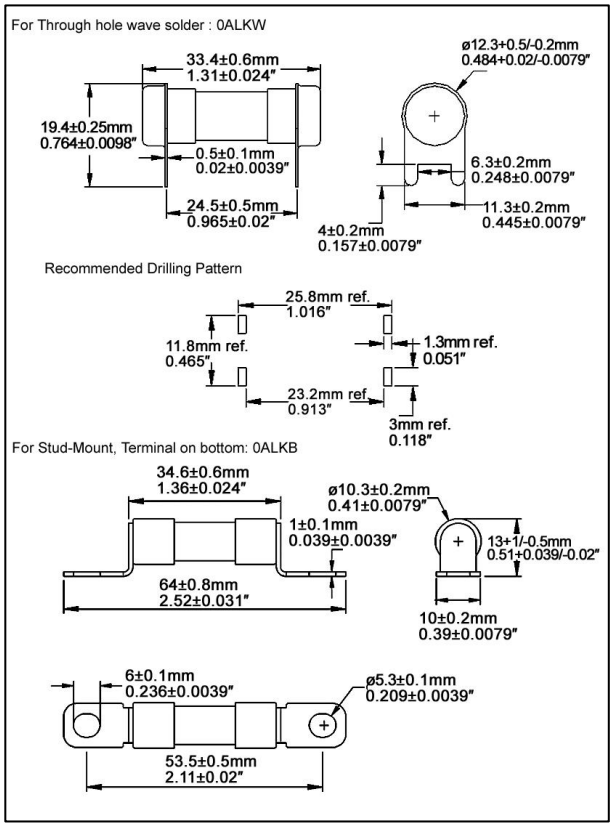
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Fuse FGNO Explanation
0ALK X [XXXX] - XX
0ALKW/B=0ALKW/B; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Amps	Bel FGNO[XXXX]
30	9300
40	9400
50	9500
60	9600

Mechanical Dimensions



Ordering Information

0ALK X XXXX – X X

FUSE TYPE
0ALK

Mounting Tab Style
W = Through hole wave solder
B = For Stand Mount

AMPERE RATING
Refer to fuse FGNO explanation table

PACKAGING & QUANTITY CODE
PD = 45pcs/plastic tray, 450pcs/shipping carton (For 0ALKW)
BD = 20pcs/inner box, 480pcs/shipping carton (For 0ALKB)

Packaging

Packaging Option	Quantity	Packaging Code
Plastic Tray(0ALKW)	45pcs/plastic tray, 450pcs/shipping carton	PD
Bulk(0ALKB)	20pcs/inner box, 480pcs/shipping carton	BD

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