

OAKK Series RoHS Compliant

Description

1000 VDC rated ceramic tube fuse

Features

- Fast-Acting fuse for DC Application
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Designed to EV fuse standard UL248-20
- Excellent DC performance
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863

Applications

EV/HEV/ESS Application



UK : **%** us ({

Physical Specifications

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

Safety Agency Approvals

| Safety Agency | Safety Agency Certificate | Ampere Rating/ Voltage Rating | Ampere Range / Volt @ I.R. ability* | | |
|---|------------------------------|----------------------------------|--|--|--|
| c FL °us | E491441 | 63A-350A / 1000V DC | 63A-350A / 1000V @ 50kA DC | | |
| *I.R.= Interrupting Rating = Short Circuit Rating(Amps) | | | | | |

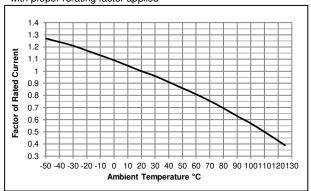


Specifications subject to change without notice

Type 0AKK

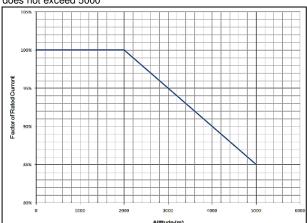
Temperature Re-Rating Curve

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

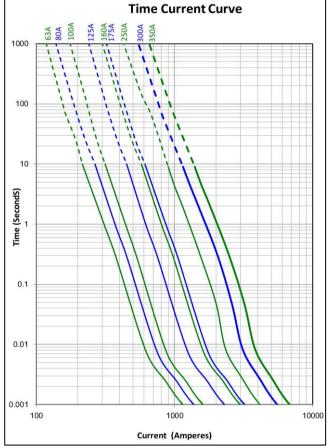


Re-rating with High altitude

The current load calculation formula of high altitude is: I = In * (1- (h-2000)/100*(0.5/100)), where h is the altitude and does not exceed 5000



Average Time Current Curve



Electrical Specifications

| Electrical Specifications | | | | | | | |
|---------------------------|------------------|---|-------------|-----------------|------------------|------------------|---------------------|
| Part Number | Rated Current | Voltage and Interrupting Ratings | I²t (A²sec) | | 0.5In Power loss | 1.0In Power loss | Agency Approvals |
| | | | Pre-arcing | Total @ 1000Vdc | (W) | (W) | c 71 2 us |
| 0AKK-9630-xx | 63A | See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings | 720 | 4360 | 2.6 | 15.2 | Υ |
| 0AKK-9800-xx | 80A | | 1050 | 6710 | 3.2 | 18.6 | Υ |
| 0AKK-K100-xx | 100A | | 1560 | 10500 | 3.9 | 22.4 | Υ |
| 0AKK-K125-xx | 125A | | 3200 | 22600 | 4.5 | 25 | Υ |
| 0AKK-K160-xx | 160A | | 5400 | 43200 | 5.7 | 33.5 | Υ |
| 0AKK-K175-xx | 175A | | 6250 | 50000 | 6.9 | 41.4 | Y |
| 0AKK-K250-xx | 250A | | 9600 | 43680 | 8.7 | 52 | Υ |
| 0AKK-K300-xx | 300A | | 17000 | 85000 | 9.8 | 59 | Υ |
| 0AKK-K350-xx | 350A | | 29000 | 158000 | 13 | 68 | Υ |

Consult manufacturer for other ratings

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



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Bel Fuse Inc. 206 Van Vorst Street Jersey City, NJ 07302 USA

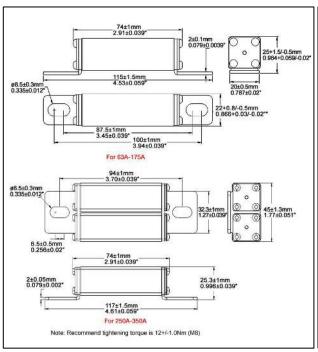
Rev. 0AKK Apr2023

Type 0AKK

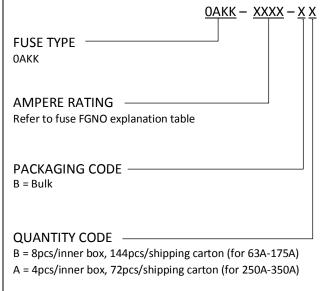
Fuse FGNO Explanation 0AKK - [XXXX] - XX [XXXX] = Ampere Rating; XX = See Ordering Information as below

| Amps | Bel FGNO[XXXX] | Amps | Bel FGNO[XXXX] |
|------|----------------|------|----------------|
| 63A | 9630 | 175A | K175 |
| 80A | 9800 | 250A | K250 |
| 100A | K100 | 300A | K300 |
| 125A | K125 | 350A | K350 |
| 160A | K160 | | |

Mechanical Dimensions



Ordering Information



Packaging

| Packaging Option | Quantity | Packaging Code |
|----------------------|--|----------------|
| Bulk (for 63A-175A) | 8pcs/inner box, 144pcs/shipping carton | ВВ |
| Bulk (for 250A-350A) | 4pcs/inner box, 72pcs/shipping carton | ВА |



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