

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	0AMA-0100-TD
Manufacturer:	Bel Fuse Inc.
Package:	Cartridge, Non-Standard
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0ama-0100-td.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.

Type 0AMA

3x8.4mm Fast-acting Fuses for hazardous applications

0AMA Series

RoHS Compliant

Description

250V AC/DC rated ceramic tube fuse

Features

- designed for barrier circuits in intrinsic safety applications relating to Hazardous Locations
- Meets electrical performance specifications for intrinsically safe(EN60079-11) applications
- Fast-acting, high interrupting rating of 4000A at 250Vac/dc
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free

Applications

- Hazardous Locations and Environments
- Intrinsically safe network barriers
- Electrical connections and components
- Test equipment
- Petrochemical processing and refining equipment
- Pulp and paper processing equipment

HALOGEN FREE = **HF**



UK
CA CE

Physical Specifications

Materials	Body : Ceramic
	Terminals : Silver plated brass
Marking	On Fuse :
	"Color coding for Current Rating",
	On Label :
	"bel", "0AMA", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "  ", "  " (China RoHS compliant).

Electrical Characteristics

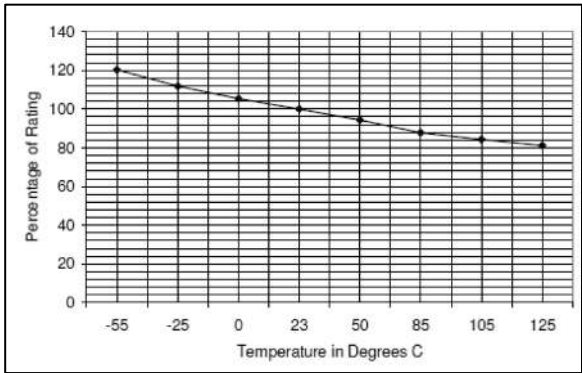
1.1 In	3.0In	10.0In
4 hours min.	10 sec max.	0.002 sec max.

Ratings

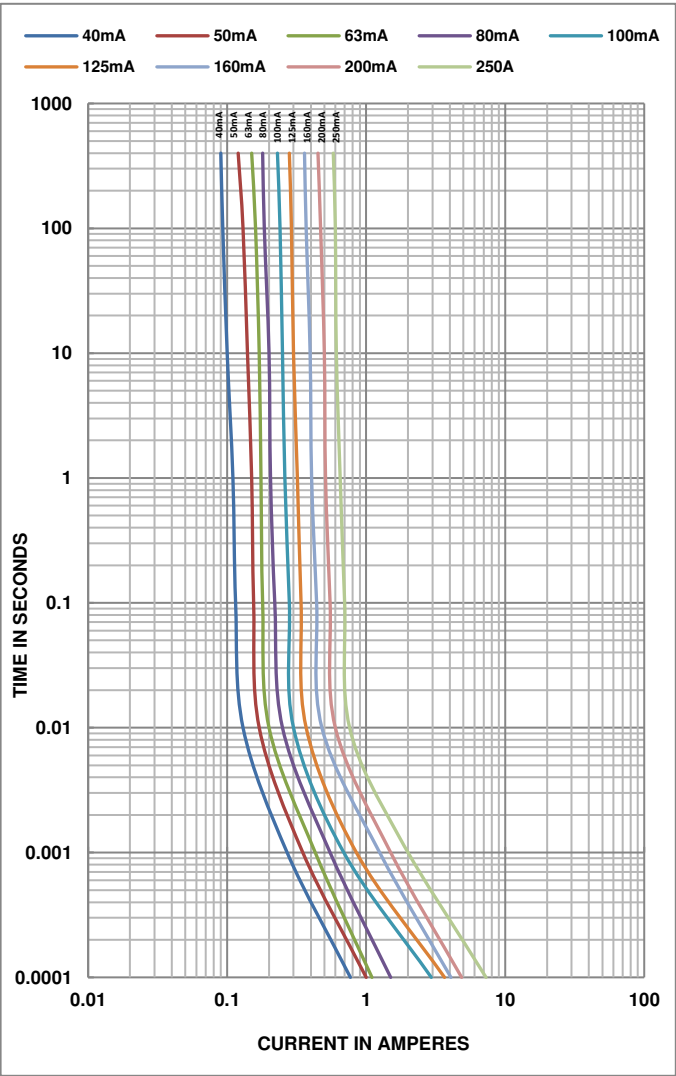
Safety Agency	Safety Agency Certificate	Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
	E491441	40mA-250mA/250V DC 250V AC	40mA-250mA/250V @ 4kA DC 250V @ 4kA AC
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)			

Temperature Derating Curve

Operating Temperature: -55°C to +125°C,
with proper derating factor applied



Average Time Current Curve

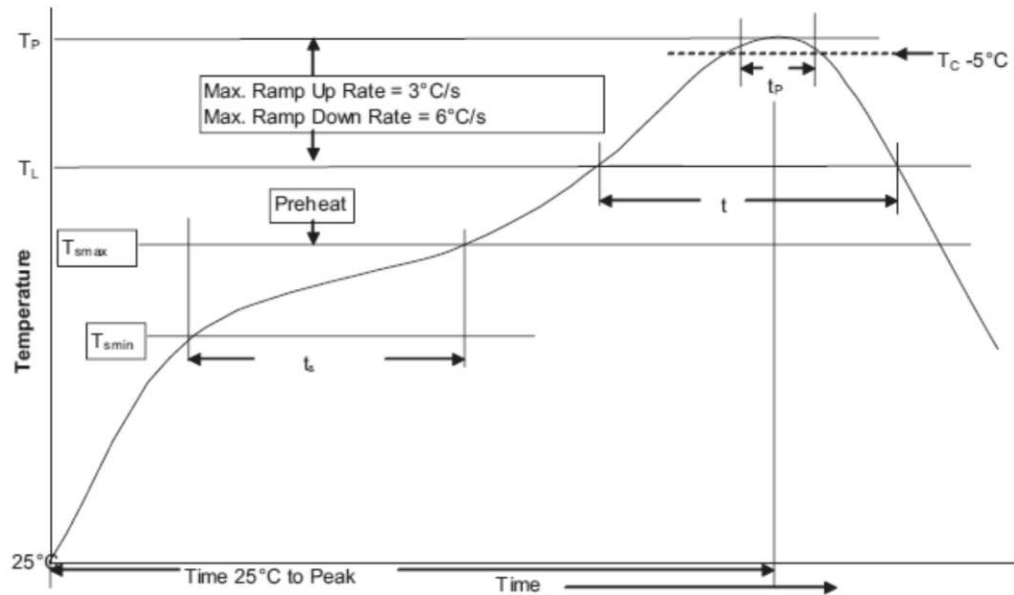


Electrical Specifications

Part Number	Rated Current	Voltage and Interrupting Ratings	Typical Cold. Resistance (Ω)	I ² t * (A ² sec)	color coding	Agency Approvals
				Pre-arcing		 US
0AMA-0040-TD	40mA	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	14.2	0.00006	Grey	Y
0AMA-0050-TD	50mA		9.40	0.00010	Red	Y
0AMA-0063-TD	63mA		8.80	0.00012	Pink	Y
0AMA-0080-TD	80mA		5.10	0.00018	Green	Y
0AMA-0100-TD	100mA		2.87	0.00087	Yellow	Y
0AMA-0125-TD	125mA		2.20	0.00134	Orange	Y
0AMA-0160-TD	160mA		2.05	0.00166	Violet	Y
0AMA-0200-TD	200mA		1.01	0.00237	Brown	Y
0AMA-0250-TD	250mA		0.71	0.00530	Black	Y

Consult manufacturer for other ratings
* I²t is measured with 10In.

Soldering Parameters



Profile Feature		Lead(Pb) free solder
Preheat and soak	• Temperature min. (T_{smin})	150°C
	• Temperature max. (T_{smax})	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60 - 120 Seconds
Average ramp up rate T_{smax} to T_P		3°C / Second Max.
Liquidous temperature (T_L)		217°C
Time at liquidous (t_L)		60 - 150 Seconds
Peak package body temperature (T_P)		260°C
Time (t_P) within 5°C of the specified classification temperature (T_C)		30 Seconds
Average ramp-down rate (T_P to T_{smax})		6°C / Second Max.
Time (25°C to Peak Temperature)		8 Minutes Max.

Type 0AMA

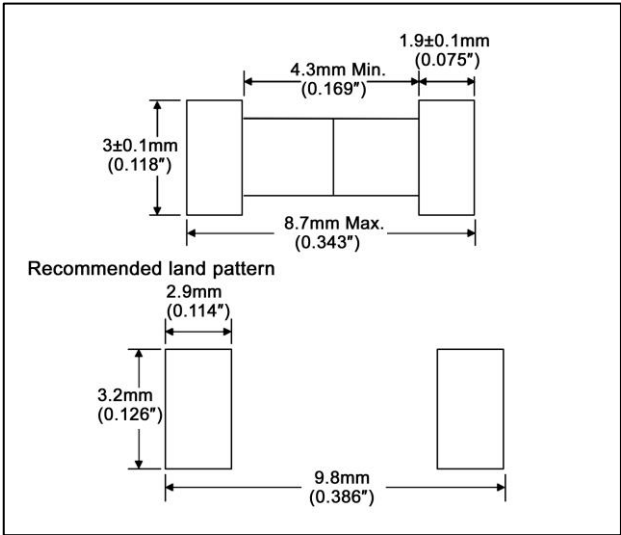
Fuse FGNO Explanation

0AMA - [XXXX] -TD

0AMA=0AMA; [XXXX]=Ampere Rating; TD=See Ordering Information as below

Amps	Bel FGNO[XXXX]
40mA	0040
50mA	0050
63mA	0063
80mA	0080
100mA	0100
125mA	0125
160mA	0160
200mA	0200
250mA	0250

Mechanical Dimensions



Ordering Information

0AMA - XXXX - X X

FUSE TYPE _____
0AMA

AMPERE RATING _____
Refer to fuse FGNO explanation table

MOUNTING TAB CODE _____
T = Tape & Reel

QUANTITY CODE _____
D = 500pcs/reel

Packaging

Packaging Option	Quantity	Packaging Code
Tape (width 24mm) and reel (dia. 13inch)	500	TD