

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 3AG 12-R
Manufacturer: Bel Fuse Inc.
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/3ag-12-r.html>

Request a Quote:

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Contact Information

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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 3AG

Fast Blow Fuse Series

HF Pb 3AG Series, 6x32mm Glass Tube Fast Blow Fuse

RoHS Compliant

Description

6x32mm Fast Blow, glass tube body cartridge fuse designed, approved and complied with UL standard 248-14.

Features

- Meet UL standard 248-14
- Wide operating temperature range
- Bulk packing available
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free
- Lead Free

Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = 
HALOGEN FREE = 



Physical Specifications

Materials	Body : Glass
	Cap : Nickel Plated Brass Caps
	Leads : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "3AG", "Current Rating", "Voltage Rating",
	"Appropriate Safety Logos", "✓" (RoHS compliant)
	On Label :
	"bel", "3AG", "Current Rating", "Voltage Rating", "Interrupting Rating",
	"Appropriate Safety Logos" and "✓", "Ⓢ" (China RoHS compliant).

Electrical Characteristics

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 hrs.	N/A
135%	N/A	1 hr.
200%	N/A	5 sec

Safety Agency Approvals

Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
	E506667	500mA-10A/ 250V AC 12A-15A/ 125V AC	500mA-10A/250V AC@200A 500mA-15A/125V AC@10,000A

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

Specifications subject to change without notice



belfuse.com/circuit-protection

Please read our datasheet & drawing disclaimer [here](#).

Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B (48 hrs).
Insulation Resistance	MIL-STD-202G, Method 302, Test Condition A (After Opening) 10,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition B (260+/-5°C, 10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).
Operating Temperature	-55°C to +125°C
Terminal Strength	IEC-68-2-21

Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @100%In (Volt) max.	Voltage and Interrupting Ratings	Melting I ² T <10 mSec (A ² Sec)	Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals
								
3AG 500-R	500mA	1.19	3.17	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.14	0.11	1.88	Y
3AG 750-R	750mA	0.66	2.54		0.19	0.17	2.15	Y
3AG 1-R	1A	0.155	0.28		1.4	1.4	0.37	Y
3AG 1.25-R	1.25A	0.114	0.27		2.4	2.5	0.44	Y
3AG 1.6-R	1.6A	0.085	0.27		4.2	4.4	0.51	Y
3AG 2-R	2A	0.057	0.22		7.2	7.6	0.59	Y
3AG 2.5-R	2.5A	0.043	0.21		12	13	0.70	Y
3AG 3-R	3A	0.033	0.17		21	23	0.83	Y
3AG 3.5-R	3.5A	0.027	0.18		28	31	0.91	Y
3AG 4-R	4A	0.024	0.17		36	40	1.00	Y
3AG 5-R	5A	0.018	0.16		63	70	1.20	Y
3AG 6-R	6A	0.014	0.15		107	123	1.40	Y
3AG 7-R	7A	0.012	0.16		141	162	1.60	Y
3AG 8-R	8A	0.010	0.15		184	214	1.70	Y
3AG 10-R	10A	0.008	0.13		316	372	2.00	Y
3AG 12-R	12A	0.006	0.13		501	597	2.40	Y
3AG 15-R	15A	0.005	0.13		1400	1500	1.80	Y

Consult manufacturer for other ratings

Specifications subject to change without notice



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Rev. 3AG June2026

Temperature Derating Curve



Average Time Current Curve



Soldering Parameters

Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C / second
Heating rate during preheat	typical 1 - 2°C / second Max 4°C / second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature T _p	260°C
Time within +0°C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



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Type 3AG

Fuse FGNO Explanation

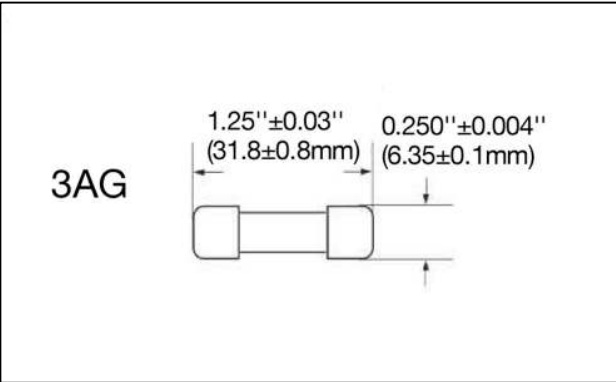
06X1 R [XXXX] -XX

0601R=3AG; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/2	.500	500	0500
3/4	.750	750	0750

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
	1.60	1.6	1600
	2.0	2	2000
2-1/2	2.5	2.5	2500
	3.0	3	3000
3-1/2	3.5	3.5	3500
	4.0	4	4000
	5.0	5	5000
	6.0	6	6000
	7.0	7	7000
	8.0	8	8000
		10	9100
		12	9120
		15	9150

Mechanical Dimensions



Ordering Information

	06X1	R	XXXX	-	X	X
FUSE TYPE						
0601R = 3AG Series						
R = RoHS Compliant						
AMPERE RATING						
Refer to fuse FGNO explanation table						
PACKAGING CODE						
3 = 3AG, Cartridge, 1K / Box						
VOLTAGE CODE						
2 = 125V, for 12A-15A						
3 = 250V, for 500mA-10A						

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	1000	33 / 32	N/A

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