



HF 66 3AB Series, 6x32mm Ceramic Tube Fast Blow Fuse

RoHS Compliant

Description

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

Features

- Meet UL and CSA 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

LEAD FREE = HALOGEN FREE = HF



- Adapter

Physical Specifications

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





Electrical Characteristics (UL/CSA STD.248-14) Safety Agency Approvals

Testing	Blow	Amn Donge		
Current	Minimum	Maximum	Amp Range	
100%	4 hrs.	N/A	100mA-20A	
135%	N/A	1 hr.	100mA-10A	
200%	N/A	5 sec	100mA-10A	
200%	N/A	120 sec	12A-20A	

Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*				
C (UL) US	E20624		500mA-1A/250V AC@35A >1A-3.5A/250V AC@100A				
(LR39772		>3.5A-10A/250V AC@200A 500mA-10A/250V AC@10,000A				
c (VL) us	E20624	500mA-20A /250V AC	>10A-15A/250V AC@750A >15A-20A/250V AC@1,500A >10A-20A/125V AC@10,000A				
(PS)	JET1037-31003-1010 JET1037-31003-1011		1A-5A/125V AC@500A				
~	JET1037-31003-1007		>5A-15A/125V AC@300A				
*I.R.= Int	*I.R.= Interrupting Rating = Short Circuit Rating(Amps)						



Specifications subject to change without notice

Type 3AB

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	Ampere Rating Typical Cold Resistance (ohms)		istance @100%ln	Voltage and Interrupting Ratings	Melting I ² T	Melting I ² T @10 In	Maximum Power Dissipation (W)	Agency Approvals		
Number					(A ² Sec)	(A ² Sec)		(M)us	((m)
3AB 500-R	500mA	0.74	1.50		0.14	0.10	1.92	Υ	Υ	
3AB 750-R	750mA	0.257	0.36		0.75	0.74	0.30	Υ	Υ	
3AB 1-R	1A	0.155	0.28		1.4	1.4	0.37	Υ	Υ	Υ
3AB 1.25-R	1.25A	0.114	0.27		2.5	2.5	0.44	Υ	Υ	Υ
3AB 1.5-R	1.5A	0.089	0.27		3.80	3.95	0.49	Υ	Υ	Υ
3AB 1.6-R	1.6A	0.085	0.27		4.2	4.4	0.51	Υ	Υ	Υ
3AB 2-R	2A	0.057	0.22		7.2	7.6	0.59	Υ	Υ	Υ
3AB 2.5-R	2.5A	0.043	0.21	See Table of	12	13	0.70	Υ	Υ	Υ
3AB 3-R	3A	0.033	0.17	Safety Approvals on Page 1 for	21	23	0.83	Υ	Υ	Υ
3AB 3.5-R	3.5A	0.027	0.18	Voltage and	28	31	0.91	Υ	Υ	Υ
3AB 4-R	4A	0.024	0.17	associated Interrupting	36	40	1.00	Υ	Υ	Υ
3AB 5-R	5A	0.018	0.16	Ratings	63	70	1.20	Υ	Υ	Υ
3AB 6-R	6A	0.014	0.15		107	123	1.40	Υ	Υ	Υ
3AB 7-R	7A	0.012	0.16		141	162	1.60	Υ	Υ	Υ
3AB 8-R	8A	0.010	0.15		184	214	1.70	Υ	Υ	Υ
3AB 10-R	10A	0.008	0.13		316	372	2.00	Υ	Υ	Υ
3AB 12-R	12A	0.009	0.19		501	597	2.30	Υ		Υ
3AB 15-R	15A	0.007	0.17		845	1023	2.70	Υ		Υ
3AB 20-R	20A	0.004	0.15		1598	1968	3.00	Υ		

Consult manufacturer for other ratings

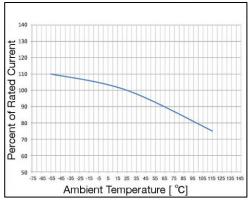


Specifications subject to change without notice

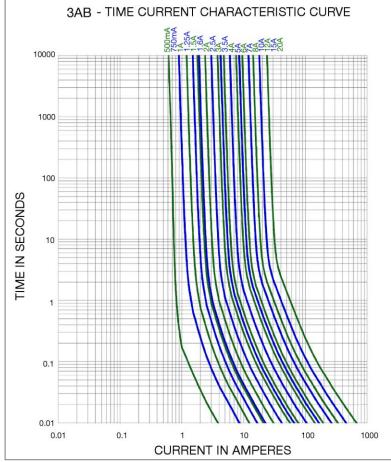
Rev. 3AB Mar22 2022

Type 3AB

Temperature Derating Curve

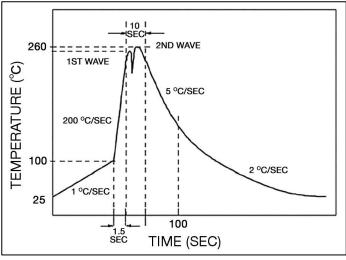


Average Time Current Curve



Soldering Parameters

Lead-free Wave Soldering Profile				
Wave Soldering Parameter				
Average ramp-up rate	200℃ / 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 Tp	260℃			
Time within +0 °C / -5 °C of actual peak temperature	10 seconds			
Ramp-down rate	5°C / second max.			





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Rev. 3AB Mar22 2022

Type 3AB

Fuse FGNO Explanation 06X3 R [XXXX] -XX

0603R=3AB; [XXXX]=Ampere Rating; XX=See Ordering Information as below

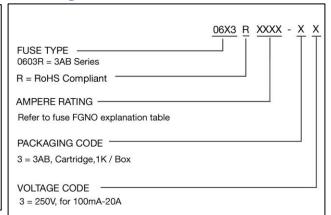
Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/2	.500	500	0500
3/4	.750	750	0750

Fraction	Decimal	Amps	Bel FGNO[XXXX]	
	1.0	1	1000	
1-1/4	1.25	1.25	1250	
1-1/2	1.50	1.5	1500	
	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	
		20	9200	

Mechanical Dimensions

3AB 1.25"±0.03" 0.250"±0.004" (6.35±0.1mm)

Ordering Information



Packaging

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



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Rev. 3AB Mar22 2022