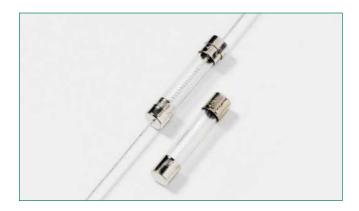
Axial Lead & Cartridge Fuses 3AG > Slo-Blo® Fuse > 313/315 Series

313/315 Series Lead-Free 3AG, Slo-Blo® Fuse





Agency Approvals

Agency	Agency File Number	Ampere Range
(l)	E10480	0.010A - 10A**
(P)	29862	0.010A - 10A**/15A**
717	E10480	10A - 30A
⟨PS⟩ E	313 Series (Cartridge): NBK060618-E10480A NBK060618-E10480C	1-5A 6.25- 10A**
	315 Series (Leaded): NBK060618-E10480B NBK060618-E10480D	1-5A 6.25-10A**
	SU05001-6004 SU05001-5007 SU05001-5008 SU05001-5009	2.25-2.5A 2.8A - 3.2A 4A - 6.3A 7A-8A
€	N/A	0.010A - 10A**/15A**

^{**} See note under Electrical Characteristics by item

Description

The 3AG Slo-Blo® fuse solves a broad range of application requirements while offering reliable performance and cost-effective circuit protection.

The fuse catalog number with the suffix "ID" instantly identifies itself upon opening by showing a discoloration of its glass body. Guesswork and time consuming circuit testing are eliminated. This unique design offers the same quality performance characteristics as the standard 3AG Slo-Blo® Fuse design.

Features

- In accordance with UL Standard 248-14
- Available in cartridge and axial lead format and with various forming dimensions
- RoHS compliant and Lead-free

Applications

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

Additional Information



Datasheet 313 Series



Datasheet 315 Series



Resources 313 Series



Resources 315 Series



Samples 313 Series



Accessories 313 & 315 Series

Samples 315 Series

Electrical Characteristics by Series

% of Ampere Rating	Ampere Rating	Opening Time	
100%	10mA – 30A	4 hours, Minimum	
135%	10mA – 30A	1 hour, Maximum	
200%	10mA – 15A	5 sec., Min.,30 sec., Max	
200%	20A – 30A	5 sec., Min.,60 sec Max	

For recommended fuse accessories for this product series, see 'Recommended Accessories' section.

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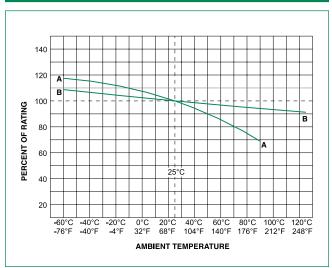
Electrical Characteristic Specifications by Item

	Ampere	Voltage		Nominal Cold	Nominal	minal Agency Approvals					
Code (A) (V) Rating Rating	Interrupting Rating	Resistance (Ohms)	Melting I²t (A² sec)	(Î)	(3P)		47 .	PS	Œ		
0.01	0.01	250		4300.0000	0.000121	Х	Х				Х
0.031	0.031	250		430.0000	0.00303	X	X				X
0.04	0.04	250		300.0000	0.00630	X	X				X
0.062	0.062	250		120.0000	0.0210	X	X				X
0.1	0.1	250		43.0000	0.0850	X	X				X
0.125	0.125	250		30.0000	0.152	X	X				X
0.15	0.15	250		20.0000	0.270	X	X				X
0.175	0.175	250		8.6700	0.177	X	X				X
0.187	0.187	250		8.0100	0.230	X	X				X
0.2	0.2	250	35A@250Vac	6.5900	0.270	X	X				X
0.25	0.25	250	10KA@125Vac	4.2700	0.385	X	X				X
0.3	0.3	250		3.1350	0.730	X	X				X
0.375	0.375	250		2.0950	1.23	X	X				X
0.4	0.4	250		1.8750	1.35	X	X				X
0.5*	0.5	250		1.2600	2.55	X	X				X
0.6	0.6	250		0.9120	4.00	X	X				X
0.7	0.7	250	-	0.7000	5.90	X	X				X
0.75	0.75	250		0.6215	7.16	X	X				X
0.8	0.8	250		0.5540	8.00	X	X				X
1.0*	1	250		0.3750	14.0	X	X			X	X
1.2	1.2	250		0.2780	21.5	X	X			X	X
1.25	1.25	250		0.2600	24.0	X	X			X	X
1.5*	1.5	250		0.1910	38.0	X	X			X	X
1.6	1.6	250		0.1710	49.6	X	X			X	X
1.8	1.8	250	100A@250Vac	0.1410	92.0	X	X			X	Х
2.0*	2	250	10KA@125Vac	0.1169	77.0	X	X			X	X
2.25	2.25	250		0.0968	121	Х	X	X		X	X
2.5	2.5	250		0.0811	199	X	X	X		X	X
2.8	2.8	250		0.0675	269	Х	X	X		X	X
3.*	3	250		0.0593	200	X	X	X		X	X
3.2	3.2	250		0.0529	209	X	X	X		X	Х
4.0*	4	250		0.0311	76.1	X	X	X		X	X
5.0*	5	250		0.0214	276	X	X	X		X	X
6.25*	6.25	250	200A@250Vac	0.0154	388	X	X	X		X	X
6.3	6.3	250	10KA@125Vac	0.0154	388	X	X	X		X	X
7.0*	7	250		0.0128	547	X	X	X		X	X
8.0*	8	250		0.0111	701	X	X	X		X	X
10.0**	10	250		0.0083	1285	X	X			X	X
10.0*	10	32	-	0.0083	1285				X		
12.0	12	32		0.0065	1200				X		
15.0**	15	125	00040001	0.0050	2650		X		X	X	X
15.0	15	32	300A@32Vac	0.0050	2650				X		
20.0	20	32	-	0.0022	9560				X		
25.0	25	32	-	0.0017	16500				X		
30.0	30	32		0.0012	26900				X		

^{*} For 313series, these ratings available with an indicating option. Add the "ID" designation to the series number i.e. 313.500ID.

** The 10A and 15A ratings are ratings are designed for special voltage requirement. For 10A, it is available as 250Vac rated and the part number is 0313010.MX250P; For 15A, it is available as 125Vac rated and the part number is 0315015.MX125P.

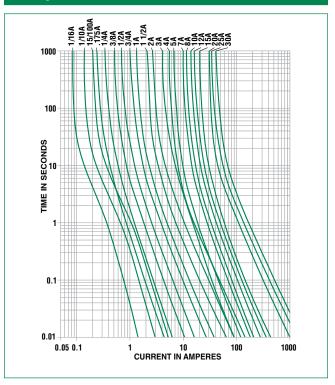
Temperature Re-rating Curve



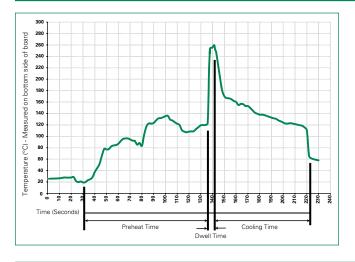
A - For 313/315 Series, from 10mA to 150mA
B - For all other ampere ratings of 313/315 series

Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100°C
Temperature Maximum:	150°C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	260°C Maximum
Solder Dwell Time:	2-5 seconds

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width			
		313 Series					
Bulk	N/A	1000	MX	N/A			
Bulk	N/A	100	HX	N/A			
315 Series							
Bulk	N/A	1000	MX	N/A			
Bulk	N/A	100	HX	N/A			
Bulk	N/A	1000	MXB	N/A			

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Product Characteristics

Materials	Body: Glass Cap: Nickel-plated brass Leads: Tin-plated Copper
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Solderability	MIL-STD-202 method 208
Product Marking	Cap1: Brand logo, current and voltage ratings Cap2: Series and agency approval marks

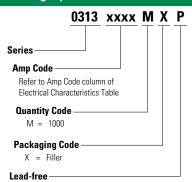
Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High RH (95%) and Elevated temperature (40°C) for 240 hours
Salt Spray	MIL- STD-202, Method 101, Test Condition B

Dimensions

313 000P Series 315 000P Series (cartridge) (axial leaded) 6.35±0.3 (.25") 6.985±0.3 (.275")32.72±1.12 **Axial Lead Diameter: Axial Lead Length:** 0.81±0.05 (.032") for (0.01A - 15A) 38.1±3.15 (1.50") TYP. **Axial Lead Material:** 1.02±0.06 (.040") for (20A - 30A) Tin-coated copper

Measurements displayed in millimeters (inches)

Part Numbering System



Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
	<u>155100</u>	Twist-Lock In-Line Fuseholder	32	20
Haldas	342	Traditional Panel Mount Fuseholder	250	20
Holder 346	346	Panel Mount Flip-Top Shock-Safe Fuseholder	250	15
345		Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options	250	16
Block	<u>354</u>	354 Low Profile OMNI-BLOK® Fuse Block		30
DIOCK	359	High Current Screw Terminal Fuse Block	600	30
Clin	122	High Current Traditional PC Board Fuse Clip	1000	30
Clip	<u>101</u>	Rivet/Eyelet Type Fuse Clip	1000	15

Notes:

- Do not use in applications above rating.
- 2. Please refer to fuseholder data sheet for specific re-rating information.
- 3. Please contact factory for applications greater than the max voltage and amperage shown.