

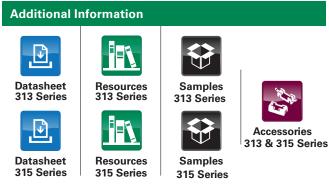
313/315 Series Lead-Free 3AG, Slo-Blo® Fuse



Agency Approvals

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

** See note under Electrical Characteristics by item



For recommended fuse accessories for this product series, see '<u>Recommended Accessories</u>' section.

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

- Conforms to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14
- Available in cartridge and axial lead format and with various forming dimensions
- RoHS compliant and Lead-free

RoHS 🗭 🖲 🚯 🐴 🗇 🗟 🧲

• Conforms to DENAN's Appendix 3

Applications

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

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		



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

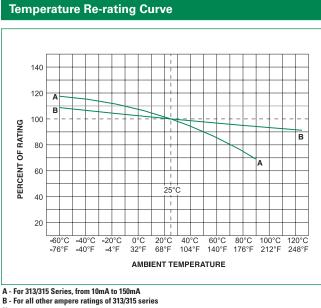
Amp Ampere		Voltage	Interrupting	Nominal Cold	Nominal			· · ·	Approvals		
Code Rating (A)		Rating (V)	Rating	Resistance (Ohms)	Melting I²t (A² sec)	(UL)	()	K	7	PS	(€
.010	0.01	250		4300.0000	0.000121	х	Х	-	-	-	Х
.031	0.031	250		430.0000	0.00303	Х	Х	-	-	-	Х
.040	0.04	250		300.0000	0.00630	Х	Х	-	-	-	Х
.062	0.062	250		120.0000	0.0210	Х	X	-	-	-	Х
.100	0.1	250		43.0000	0.0850	Х	Х	-	-	-	Х
.125	0.125	250		30.0000	0.152	Х	X	-	-	-	Х
.150	0.15	250		20.0000	0.270	Х	x	-	-	-	Х
.175	0.175	250		8.6700	0.177	Х	X	-	-	-	х
.187	0.187	250		8.0100	0.230	Х	X	-	-	-	Х
.200	0.2	250	35A@250Vac	6.5900	0.270	Х	X	-	-	-	х
.250	0.25	250	10KA@125Vac	4.2700	0.385	Х	X	-	-	-	х
.300	0.3	250		3.1350	0.730	Х	x	-	-	-	х
.375	0.375	250	1	2.0950	1.23	Х	x	-	-	-	х
.400	0.4	250	1	1.8750	1.35	Х	x	-	-	-	х
.500*	0.5	250		1.2600	2.55	Х	Х	-	-	-	х
.600	0.6	250		0.9120	4.00	X	X	-	-	-	X
.700	0.7	250		0.7000	5.90	X	X	-	-	-	X
.750	0.75	250		0.6215	7.16	X	X	-	-	-	X
.800	0.8	250		0.5540	8.00	X	X	-	-	-	X
001.*	1	250		0.3750	14.0	X	X	-	-	X	X
01.2	1.2	250		0.2780	21.5	X	X	-		X	X
1.25	1.25	250	-	0.2600	24.0	X	X	-	-	X	X
01.5*	1.5	250		0.1910	38.0	X	X	-		X	X
01.6	1.6	250	-	0.1710	49.6	X	X			X	X
01.8	1.8	250		0.1410	92.0	X	X	_	_	X	X
002.*	2	250	100A@250Vac 10KA@125Vac	0.1169	77.0	X	X	-	_	X	X
2.25	2.25	250		0.0968	121	X	X	×	-	X	x
02.5	2.25	250		0.0811	199	X	X	X	-	X	X
02.8	2.8	250		0.0675	269				-		
02.8	3	250	-	0.0593	209	X	X	X	-	X	X
			-			X	X	X	-	X	X
03.2	3.2	250		0.0529	209	Х	Х	X		X	Х
004.*	4	250		0.0311	76.1	X	X	X	-	X	X
005.*	5	250	-	0.0214	276	Х	Х	Х	-	X	Х
6.25*	6.25	250	200A@250Vac	0.0154	388	Х	X	X	-	Х	Х
06.3	6.3	250	10KA@125Vac	0.0154	388	Х	Х	Х	-	Х	Х
007.*	7	250		0.0128	547	Х	Х	Х	-	Х	Х
008.*	8	250		0.0111	701	Х	Х	Х	-	X	Х
010.**	10	250		0.0083	1285	Х	Х	-	-	X	Х
010.*	10	32	_	0.0083	1285	-	-	-	Х	-	-
012.	12	32		0.0065	1200	-	-	-	Х	-	-
015.	15	32	300A@32Vac	0.0050	2650	-	-	-	Х	-	-
020.	20	32	0007602 000	0.0022	9560	-	-	-	Х	-	-
025.	25	32		0.0017	16500	-	-	-	Х	-	-
030.	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 is designed for special voltage requirement. Available as 250Vac rated and the part number is 0313010.MX250P

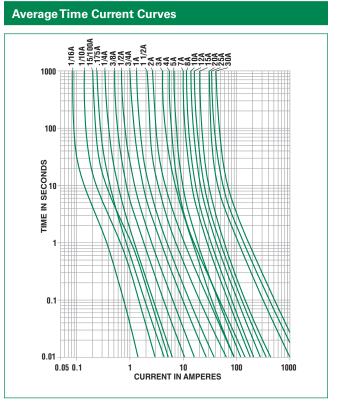


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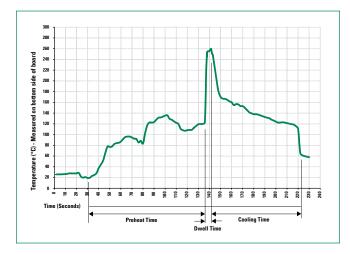


Note

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



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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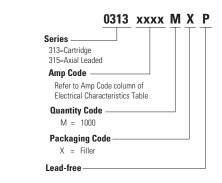
Product Characteristics

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	-60°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	MILSTD-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

* See Temperature Re-rating Curve

Part Numbering System

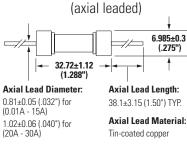


6.35±0.3 (.25") → 31.75±1.12 → (1.25")

313 000P Series

(cartridge)

Dimensions



315 000P Series

6.985±0.3

(.275")

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Measurements displayed in millimeters (inches)

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
	<u>155100</u>	Twist-Lock In-Line Fuseholder	32	20
Holder <u>342</u> <u>346</u>	342	Traditional Panel Mount Fuseholder	250	20
	<u>346</u>	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>	Low Profile OMNI-BLOK [®] Fuse Block	600	30
BIOCK <u>359</u>		High Current Screw Terminal Fuse Block	000	30
Clin	<u>122</u>	High Current Traditional PC Board Fuse Clip	1000	30
Clip <u>101</u>		Rivet/Eyelet Type Fuse Clip	1000	15

Notes:

1. Do not use in applications above rating.

Please refer to fuseholder data sheet for specific re-rating information.
Please contact factory for applications greater than the max voltage and amperage shown.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at https://www.littelfuse.com/legal/disclaimers/product-disclaimer.aspx.