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Axial Lead & Cartridge Fuses 3AG > Fast Acting > 312/318 Series

312/318 Series Lead-Free 3AG, Fast-Acting Fuse





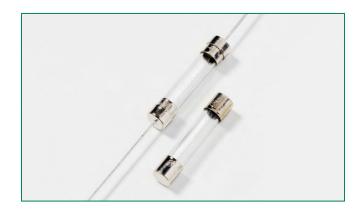












Agency Approvals

Agency	Agency File Number	Ampere Range		
(II)	E10480	312 Series: 0.062A - 30A 318 Series: 0.062A - 10A		
()	29862	312 Series: 0.062A - 30A 318 Series: 0.062A - 10A		
PS	NBK040205-E10480B/F NBK040205-E10480D/H			
c FL °us	E10480	318 Series: 12A - 30A		
	SU05001-6008 SU05001-5005 SU05001-5006	312/318 Series: 1-2A 312/318 Series: 3-6A 312/318 Series: 7-10A		
Œ	N/A	312 Series: 0.062A - 10A 318 Series: 0.062A - 10A		

Description

The 3AG Fast-Acting Fuse solves a broad range of application requirements while offering reliable performance and cost-effective circuit protection.

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.

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	OpeningTime		
100%	0.062A - 35A	4 hours, Minimum		
135%	0.062A - 35A	1 hour, Maximum		
	0.062A - 10A	5 sec., Maximum		
200%	12A – 30A	10 sec., Maximum		
	35A	20 sec., Maximum		

Additional Information



Datasheet 312 Series



Datasheet 318 Series



Resources 312 Series



Resources 318 Series



Samples 312 Series



Accessories 312 & 318 Series



Samples 318 Series

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

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.062 .100 .125 .150 .175	Ampere Rating (A) 0.062 0.1 0.125 0.15	Voltage Rating (V) 250 250	Interrupting Rating	Cold Resistance	Nominal Melting						1
.100 .125 .150 .175	0.1 0.125			(Onms)	Cold Molting	(II)	c FL °us		⟨PS⟩ E	(Œ
.125 .150 .175	0.125	250		24.7000	0.000249	Х				×	Х
.150 .175				11.2800	0.00171	X				×	X
.175	0.15	250		7.1450	0.00289	X				X	Х
	0.10	250		5.1300	0.00550	X				X	Х
.187	0.175	250		3.8750	0.00960	Х				X	Х
	0.187	250		3.4200	0.0128	Х				Х	х
.200	0.2	250	35A@250Vac	3.0200	0.0165	Х				Х	Х
.250	0.25	250	10KA@125Vac	2.0100	0.0355	Х				Х	х
.300	0.3	250		1.4050	0.0689	Х				Х	Х
.375	0.375	250		0.8250	0.185	Х				Х	х
.500	0.5	250		0.4980	0.483	х				Х	×
.600	.6	250		0.3620	0.880	х				х	х
.750	0.75	250		0.2445	1.84	х				Х	Х
001.	1	250		0.1900	0.760	х		х	х	х	×
1.25	1.25	250		0.1385	1.45	х		x	Х	х	×
01.5	1.5	250		0.1036	2.35	х			х	х	х
01.6	1.6	250		0.0934	2.80	×		×	х	×	Х
1.75	1.75	250		0.0856	3.60	х			х	х	×
01.8	1.8	250	100A@250Vac 10KA@125Vac	0.0825	3.85	х			х	х	Х
002.	2	250	IUKA@125VaC	0.0704	5.20	×		x	X	х	×
2.25	2.25	250		0.0594	7.20	×		X	X	х	×
02.5	2.5	250		0.0513	9.54	х		х	X	х	х
003.	3	250		0.0427	14.0	Х		Х	Х	Х	Х
004.	4	250		0.0293	28.5	х		х	X	х	х
005.	5	250		0.0224	50.0	х		x	X	х	Х
006.	6	250	200A@250Vac	0.0178	118.0	х		×	X	х	×
007.	7	250	10KA@125Vac	0.0146	81.0	х		х	X	х	Х
008.	8	250		0.0122	166.0	х		х	X	х	х
010.	10	250		0.0093	298.0	Х		Х	×	×	Х
012.*	12	32		0.0072	234.6	×	X**			×	
015.*	15	32		0.0052	490.5	Х	X**			×	
020.*	20	32	300A@32 Vac	0.0035	1414	×	X**			×	
025.*	25	32		0.0024	2041	×	X**			×	
030.*	30	32		0.0019	3717	×	X**			×	

0.0013

7531

035.

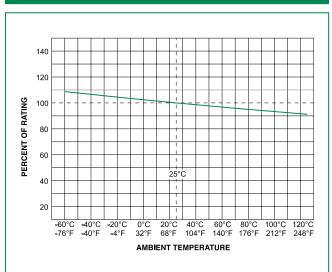
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 $[\]ensuremath{^{**}}$ For 318 Series 12A to 30A, the agency approval is only cURus.

Axial Lead & Cartridge Fuses 3AG > Fast Acting > 312/318 Series

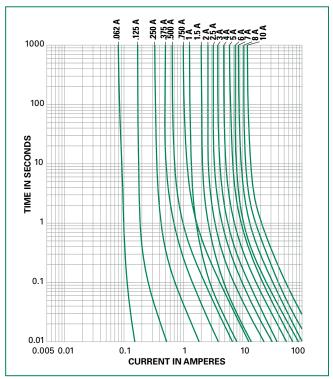
Temperature Re-rating Curve



Note:

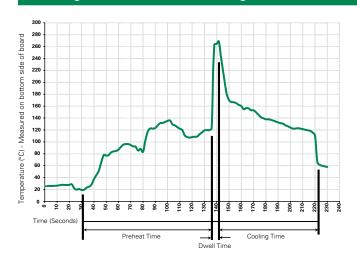
Rerating depicted in this curve is in addition to the industry practice derating of 25% for continuous operation.

Average Time Current Curves



Please contact Littelfuse for more details on those T-C Curves of other ampere ratings which are not published.

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 DwellTime:	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.



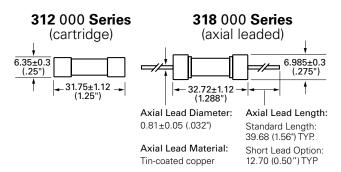
Product Characteristics

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	rati	nd logo, current and voltage ngs ies and agency approval rks	

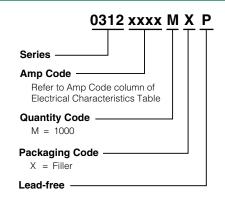
Operating Temperature	−55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High RH (95%), and Elevated temperature (40°C) for 240 hours
Salt Spray	MIL-STD-202, Method 101,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

Dimensions

Measurements displayed in millimeters (inches)



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width		
312 Series						
Bulk	N/A	1000	MX	N/A		
Bulk	N/A	100	HX	N/A		
318 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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Recommended Accessories

Accessory Type	Series	Description		Max Application Amperage
	<u>155100</u>	Twist-Lock In-Line Fuseholder	32	20
Holder	<u>342</u>	Traditional Panel Mount Fuseholder	250	20
	<u>346</u>	Panel Mount Flip-Top Shock-Safe Fuseholder	250	15
	<u>345</u>	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options	250	20
Block	Black 354 Low Profile OMNI-BLOK® Fuse Block		600	30
BIOCK	<u>359</u>	359 High Current Screw Terminal Fuse Block		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.

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.