Axial Lead & Cartridge Fuses

3AG > Fast Acting > 312/318 Series



Electrical Characteristic Specifications by Item											
	Ampere Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² sec)	Agency Approvals					
Amp Code						(J)	c N us	K		()	Œ
.062	0.062	250		24.7000	0.000249	x				x	x
.100	0.1	250		11.2800	0.00171	x				x	x
.125	0.125	250		7.1450	0.00289	x				x	x
.150	0.15	250		5.1300	0.00550	x				x	x
.175	0.175	250		3.8750	0.00960	x				x	x
.187	0.187	250		3.4200	0.0128	x				x	x
.200	0.2	250	35A@250Vac	3.0200	0.0165	x				x	x
.250	0.25	250	10KA@125Vac	2.0100	0.0355	x				x	x
.300	0.3	250		1.4050	0.0689	x				x	x
.375	0.375	250		0.8250	0.185	x				x	x
.500	0.5	250		0.4980	0.483	x				x	х
.600	.6	250		0.3620	0.880	x				x	x
.750	0.75	250		0.2445	1.84	x				x	x
001.	1	250		0.1900	0.760	x		x	x	x	x
1.25	1.25	250		0.1385	1.45	x		x	x	x	x
01.5	1.5	250		0.1036	2.35	x			x	x	x
01.6	1.6	250		0.0934	2.80	x		x	x	x	x
1.75	1.75	250		0.0856	3.60	x			x	x	x
01.8	1.8	250	100A@250Vac	0.0825	3.85	x			x	x	x
002.	2	250	TURACIZUNAC	0.0704	5.20	x		x	x	x	x
2.25	2.25	250		0.0594	7.20	x		x	x	x	x
02.5	2.5	250		0.0513	9.54	x	1	x	x	x	x
003.	3	250		0.0427	14.0	x		x	x	x	x
004.	4	250	200A@250Vac 10KA@125Vac	0.0293	28.5	x		x	x	x	x
005.	5	250		0.0224	50.0	x		x	x	x	x
006.	6	250		0.0178	118.0	x	1	х	x	x	x
007.	7	250		0.0146	81.0	x		х	x	x	x
008.	8	250		0.0122	166.0	x	1	х	x	x	x
010.	10	250		0.0093	298.0	x		x	x	x	x
012.	12	32		0.0072	234.6	x	X**			x	
015.	15	32		0.0052	490.5	x	X**			x	
020.	20	32	300A@32 Vac	0.0035	1414	x	X**			x	
025.	25	32	300A@32 Vat	0.0024	2041	x	X**			x	
030.	30	32		0.0019	3717		X**			x	
035.	35	32		0.0013	7531					ĺ	

NOTES:

** For 318 Series 12A to 30A, the agency approval is only cURus.

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Temperature Re-rating Curve



Note:

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

Soldering Parameters - Wave Soldering

Average Time Current Curves



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

300 280 Temperature (°C) - Measured on bottom side of board 260 240 220 200 180 160 140 120 100 80 60 40 20 0 0 50-230-20. 40 60. 70-8 10 20-80-200-210-80. 6 30 50 8 170 190 Time (Seconds Preheat Time Cooling Time Dwell Time

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.

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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: Cap2:	Brand logo, current and voltage ratings 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	MILSTD-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

Part Numbering System



Dimensions

Measurements displayed in millimeters (inches)



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				



Recommended Accessories

Accessory Type	Series	Description		Max Application Amperage
Holder	<u>155100</u>	Twist-Lock In-Line Fuseholder		20
	<u>342</u>	Traditional Panel Mount Fuseholder	250	20
	<u>346</u>	Panel Mount Flip-Top Shock-Safe Fuseholder		15
	<u>345</u>	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options	250	20
Block	<u>354</u>	Low Profile OMNI-BLOK® Fuse Block 69 High Current Screw Terminal Fuse Block		30
	<u>359</u>			30
Clip	<u>122</u>	High Current Traditional PC Board Fuse Clip	1000	30
	<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.

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: www.littelfuse.com/disclaimer-electronics.