Axial Lead & Cartridge Fuses

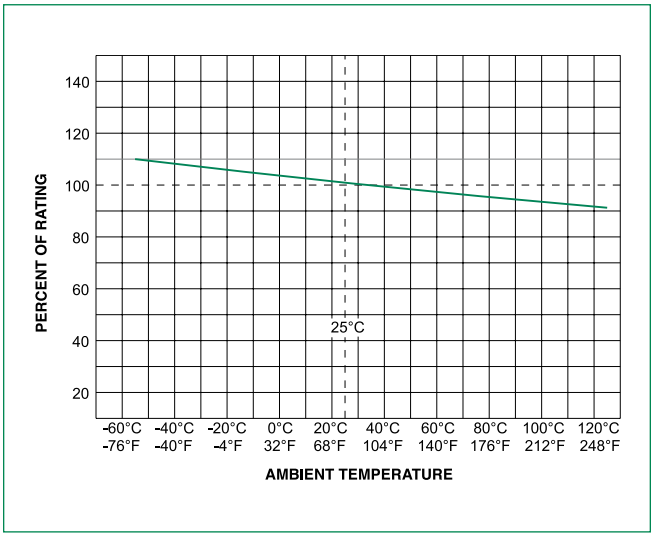
3AB > Fast-Acting > 314/324 Series

Electrical Specification by Item

Amp Code	Ampere Rating (A)	Voltage Rating (V)	Interrupting Rating+	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² sec)***	Agency Approvals						
						UL	CSA	KC	cULus	PSE	CE	
0.375	0.375	250	35 A @ 250 VAC 10 kA @ 125 VAC 10 kA @ 125 VDC	0.820	0.210	x	x	-	-	-	x	-
0.5	0.5	250		0.500	0.639	x	x	-	-	-	x	-
0.75	0.75	250		0.250	2.061	x	x	-	-	-	x	-
1.0	1	250	100 A @ 250 VAC 10 kA @ 125 VAC 10 kA @ 125 VDC	0.189	0.690	x	x	-	-	x	x	-
2.0	2	250		0.0700	5.700	x	x	-	-	x	x	-
3.0	3	250		0.0432	14.6	x	x	x	-	x	x	-
4.0	4	250	750 A @ 250 VAC 10 kA @ 125 VAC 10 kA @ 125 VDC	0.0470	10.4	x	x	x	-	x	x	-
5.0	5	250		0.0300	26.0	x	x	x	-	x	x	-
6.0	6	250		0.0240	45.0	x	x	x	-	x	x	-
7.0	7	250		0.0187	71.0	x	x	x	-	x	x	-
8.0	8	250		0.0153	105	x	x	x	-	x	x	-
10.0	10	250		0.0105	206	x	x	x	-	x	x	-
10.0*	10	280		0.0105	206	-	-	-	x	-	x	-
12.0	12	250		0.00760	570	x	x	x	-	x	x	-
15.0	15	250		0.00505	292	x	x	x	-	x	x	x****
15.0*	15	280		0.00505	292	-			x		x	-
20.0	20	250	1000 A @ 250 VAC 200 A @ 300 VAC 10 kA @ 125 VAC 10 kA @ 125 VDC	0.00355	631	-	x	x	x	x	x	x****
20.0*	20	280		0.00355	631	-	-	-	x	-	x	-
25.0	25	250	100 A @ 250 VAC 1000 A @ 75 VDC 400 A @ 125 VAC 400 A @ 125 VDC	0.00235	1450	-	-	x	x	x	x	-
25.0**	25	280		0.00235	1450	-	-	-	x	-	x	-
30.0	30	250		0.00182	2490	-	-	x	x	x	x	-
40.0	40	250	1000 A @ 250 VAC 400 A @ 150 VDC	0.0014	22925	-	-	-	x	-	x	-

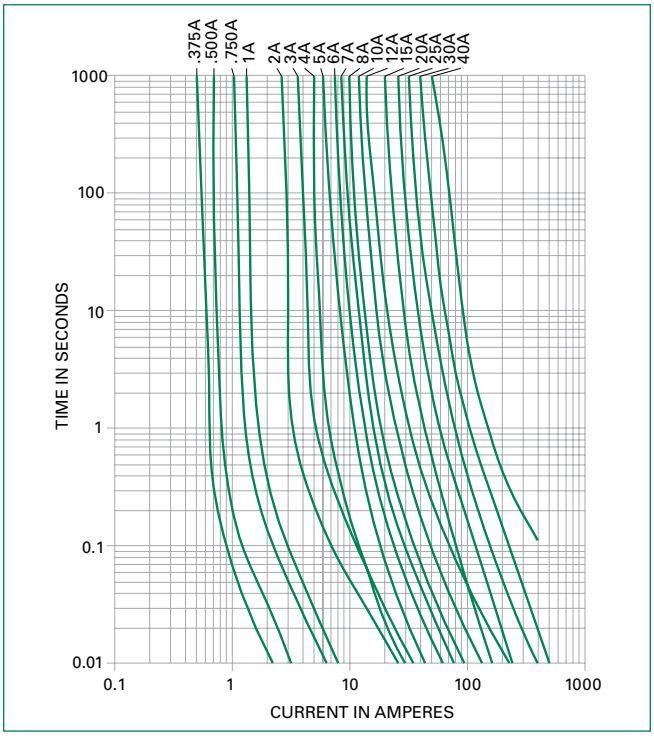
***** 350A@280VAC interrupting rating available for 10A, 15A and 20A.
****** 50A@280VAC for 25A. Add suffix '280'. Example: 0324020.MX280P.
******* I^2t test at 10x rated current
******** Approved for axial leaded versions only, and interrupting rating is 750A@250Vac for 15A,1000A@250Vac for 20A
+ - Interrupting Rating may differ based on Agency Approval. See Agency Approval certificate for more details.

Temperature Re-rating Curve



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

Average Time Current Curves



Revised: 01/31/20

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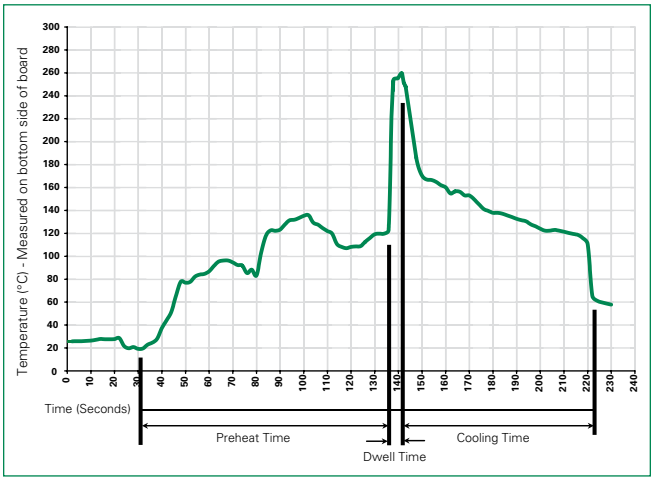
Soldering Parameters - Wave Soldering



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.

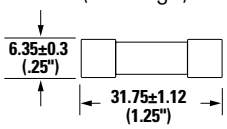
Product Characteristics

Materials	**Body:** Ceramic **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

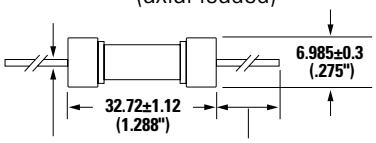
Operating Temperature	–55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B (5 cycles, -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A (High RH (95%) and Elevated temperature (40°C) for 240 hours)
Salt Spray	MIL- STD-202, Method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

Dimensions

314 000P Series
(cartridge)



324 000P Series
(axial leaded)



Axial Lead Diameter:
0.81±0.05 (.032") for (.125A - 15A)
1.02±0.06 (.040") for (20A - 40A)

Axial Lead Length:
38.1±3.15 (1.50") TYP.
52±3 (2.0") for Long Lead

Axial Lead Material:
Tin-coated copper

Measurements displayed in millimeters (inches)

Part Numbering System

0314 xxxx M X P

Series
314 = Cartridge
324 = Axial Leaded

Amp Code
Refer to Amp Code column of Electrical Specification Table

Quantity Code
M = 1000

Packaging Code
X = Filler

Lead-free

Revised: 01/31/20

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
314 Series				
Bulk	N/A	5	VX	N/A
Bulk	N/A	100	HX	N/A
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MX52L (long lead)	N/A
Bulk	N/A	1000	MXCC	N/A
Bulk	N/A	1000	MX52LE (long lead)	N/A
324 Series				
Bulk	N/A	5	VX	N/A
Bulk	N/A	100	HX	N/A
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MX280	N/A
Bulk	N/A	1000	MX52L	N/A
Bulk	N/A	1000	MXF24	N/A

Recommended Accessories

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