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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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314/324 Series Lead-free 3AB, Fast-Acting Fuse















Agency Approvals

Agency	Agency File Number	Ampere Range
(Jr	E10480	0.375A - 15A
(29862	0.375A - 20A
71 °	E10480	15A* - 40A
PS E	NBK030805-E10480A/B NBK030805-E10480C/D NBK030805-E10480E/F NBK260106-JP1021A/B	1-3.5A 4-5A 6-15A 20-30A
	SU05001-6003 SU05001-6001 SU05001-6006 SU05001-8002 SU05001-8003 SU05001-6002	3A 4-6A 7-10A 12-15A 20A 25-30A
Œ	N/A	0.375A - 30A

Description

The 3AB Fast-Acting Fuse with ceramic body construction permits higher interrupting ratings and voltage ratings. Ideal for applications where high current loads are expected.

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%	1/8 - 40	4 hours, Minimum		
135%	1/8 - 30	1 hour, Maximum		
200%	1/8 - 12	15 secs., Maximum		
200 %	15 - 30	30 secs., Maximum		
250%	40	30 secs., Maximum		

Electrical Specification by Item

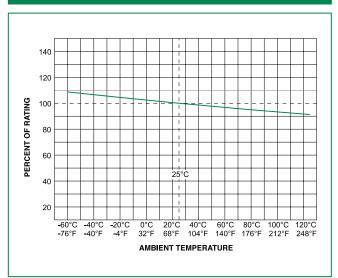
	Ampere			Nominal	Nominal	Agency Approvals					
Amp Rating (A)	Rating		Interrupting Rating	Cold Resistance (Ohms)	Melting I ² t (A ² sec)	(Î)	(<i>71</i> 2	PS E	Œ
.375	0.375	250	35 A @ 250 VAC	0.820	0.210	Х	X				×
.500	0.5	250	10 kA @ 125 VAC	0.500	0.639	Х	X				×
.750	0.75	250	10 kA @ 125 VDC	0.250	2.061	Х	X				×
001.	1	250	100 A @ 250 VAC	0.189	0.690	×	×			×	×
002.	2	250	10 kA @ 125 VAC	0.0700	5.700	Х	Х			×	×
003.	3	250	10 kA @ 125 VDC	0.0432	14.6	×	×	×		×	×
004.	4	250		0.0470	10.4	×	×	×		×	×
005.	5	250		0.0300	26.0	×	×	×		×	×
006.	6	250		0.0240	45.0	×	×	×		×	×
007.	7	250	750 4 0 050 1/40	0.0187	71.0	×	×	×		×	X
008.	8	250	750 A @ 250 VAC 10 kA @ 125 VAC	0.0153	105	×	×	×		×	×
010.	10	250	10 kA @ 125 VAC 10 kA @ 125 VDC	0.0105	206	×	×	×		×	×
010.*	10	280	10 KA @ 125 VBC	0.0105	206				×		X
012.	12	250		0.00760	570	×	×	×		×	×
015.	15	250		0.00505	292	×	×	×		×	×
015.*	15	280		0.00505	292				×		×
020.	20	250	1000 A @ 250 VAC 200 A @ 300 VAC	0.00355	631		×	×	×	×	×
020.*	20	280	10 kA @ 125 VAC 10 kA @ 125 VDC	0.00355	631				×		×
025.	25	250	100 A @ 250 VAC	0.00235	1450			×	x	x	х
025.**	25	280	1000A @ 75 VDC 400A @ 125 VAC 400 A @ 125 VDC	0.00235	1450				×		×
030.	30	250		0.00182	2490			×	×	х	×
040.	40	250	1000 A @ 250 VAC 400 A @ 150 VDC	0.0014	22925				×		×

^{* 350}A@280VAC interrupting rating available for 10A, 15A and 20A. ** 50A@280VAC for 25A. Add suffix '280'. Example: 0324020.MX280P. I2t test at 10x rated current

Axial Lead & Cartridge Fuses

3AB > Fast-Acting > 314/324 Series

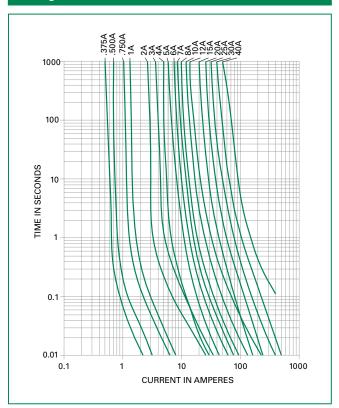
Temperature Re-rating Curve



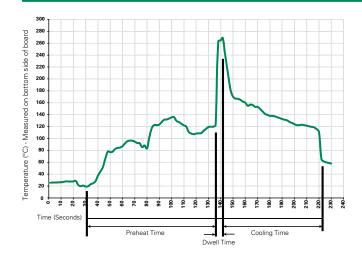
Note:

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

Average Time Current Curves



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.



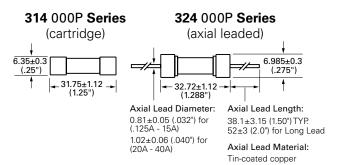
Product Characteristics

Materials	Cap:	Ceramic Nickel-plated Brass Tin-plated Copper	
Terminal Strength	MIL-STD-202, Method 211, Test Condition A		
Solderability	MIL-STD-202 Method 208		
Product Marking	•	Brand logo, current and voltage ratings Series and agency approval marks	

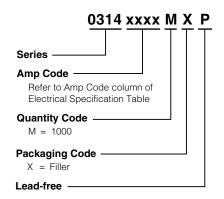
Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B (5 cycles, -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A (High RH (95%) and Elevated temperature (40°C) for 240 hours)
Salt Spray	MIL- STD-202, Method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

Dimensions

Measurements displayed in millimeters (inches)



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
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	MX52 (long lead)	N/A
Bulk	N/A	1000	MXF24	N/A

Additional Information



Datasheet 314 Series

Datasheet

324 Series



Resources 324 Series



Samples 314 Series



Accessories 314 & 324 Series



Samples 324 Series

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



Axial Lead & Cartridge Fuses 3AB > Very Fast-Acting > 322/332 Series

Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	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 <u>354</u>		Low Profile OMNI-BLOK® Fuse Block	600	30
BIOCK	<u>359</u>	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.