

325/326 Series Lead-Free 3AB, Slo-Blo® Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range
	E10480	0.250A - 10A
	E10480	12A - 30A
	29862	0.250A - 30A
	Cartridge: NBK 030805-E10480A NBK 030805-E10480C NBK 030805-E10480E NBK 260106-JP1021A Leaded: NBK 030805-E10480B NBK 030805-E10480D NBK 030805-E10480F NBK 260106-JP1021B	1A-3.2A 4A-5A 6.25A-15A 20A-30A 1A-3.2A 4A-5A 6.25A-15A 20A-30A
	SU05001-5010 SU05001-5011 SU05001-5012 SU05001-6006 SU05001-6007	7-10A 12A, 15A 20A 2.8A-3.2A 2.5A
	T 50239752 01	*12A/*15A/*20A
	N/A	0.010A - 30A

* Approved for cartridge version only

Description

The 3AB Slo-Blo® 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	Opening Time
100%	0.010A – 30A	4 hours, Minimum
135%	0.010A – 30A	1 hour, Maximum
200%	0.010A – 3.2A	5 sec., Min., 30 sec., Max.
	4A – 30A	5 sec., Min., 60 sec., Max.

Additional Information



**Datasheet
325 Series**



**Resources
325 Series**



**Samples
325 Series**



**Accessories
325 Series**



**Datasheet
326 Series**



**Resources
326 Series**



**Samples
326 Series**



**Accessories
326 Series**

For recommended fuse accessories for this product series, see '[Recommended Accessories](#)' section.

Electrical Characteristic Specifications by Item

Amp Code	Ampere Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Agency Approvals						
						PS E	UL	SP	UL	CE	△	Ⓚ
.010	0.01	250	100A@250Vac	3324.8000	0.00013					x		
.031	0.031	250		332.5000	0.0110					x		
.062	0.062	250		91.7000	0.0276					x		
.100	0.1	250		33.5500	0.0870					x		
.125	0.125	250		22.4500	0.100					x		
.150	0.15	250		15.4500	0.143					x		
.175	0.175	250		8.9200	0.350					x		
.187	0.187	250		7.7250	0.330					x		
.200	0.2	250		6.7700	0.316					x		
.250	0.25	250	100A@250Vac 10KA@125Vac 10KA@125Vdc	4.4300	0.804			x	x	x		
.300	0.3	250		3.2200	1.230			x	x	x		
.375	0.375	250		2.1550	1.20			x	x	x		
.400	0.4	250		1.9350	1.33			x	x	x		
.500	0.5	250		1.3000	4.80			x	x	x		
.600	0.6	250		0.9495	3.90			x	x	x		
.700	0.7	250		0.7215	6.42			x	x	x		
.750	0.75	250		0.6410	13.00			x	x	x		
.800	0.8	250		0.5725	8.20			x	x	x		
001.	1	250		0.3890	16.3	x		x	x	x		
01.2	1.2	250		0.2860	22.0	x		x	x	x		
1.25	1.25	250		0.2680	40.0	x		x	x	x		
01.5	1.5	250		0.1975	59.7	x		x	x	x		
01.6	1.6	250		0.1760	66.0	x		x	x	x		
002.	2	250		0.1210	118.0	x		x	x	x		
02.5	2.5	250		0.0835	185.0	x		x	x	x		x
02.8	2.8	250		0.0695	232.0	x		x	x	x		x
003.	3	250		0.0605	200.0	x		x	x	x		x
03.2	3.2	250	100A@250Vac 10KA@125Vac	0.0539	214.0	x		x	x	x		x
004.	4	250	400A@250Vac 10KA@125Vac 10KA@125Vdc	0.0761	9.71	x		x	x	x		
005.	5	250		0.0522	25.0	x		x	x	x		
6.25	6.25	250		0.0346	60.4	x		x	x	x		
007.	7	250		0.0227	47.3	x		x	x	x		x
008.	8	250		0.0193	67.1	x		x	x	x		x
010.	10	250		0.0132	137	x		x	x	x		x
012.	12	250	400A@250Vac 10KA@125Vac 600A@125Vdc	0.0067	129	x	x	x		x	x***	x
012.*	12	250	1500A@250Vac	0.0011	618		x	x		x		
015.	15	250	400A@250Vac 10KA@125Vac 600A@125Vdc	0.0050	245	x	x	x		x	x***	x
015.*	15	250	1500A@250Vac	0.0083	760		x	x		x		
020.	20	250	400A@250Vac 10KA@125Vac 600A@125Vdc	0.0034	575	x	x	x		x	x***	x
020.*	20	250	1500A@250Vac	0.0042	2500		x	x		x		
025.**	25	250	1500A@250Vac	0.0032	4682		x			x		
025.	25	250	400A@250Vac 10KA@60Vdc	0.0024	1030	x	x	x		x		
030.	30	250	600A@125Vdc	0.0019	1690	x	x	x		x		

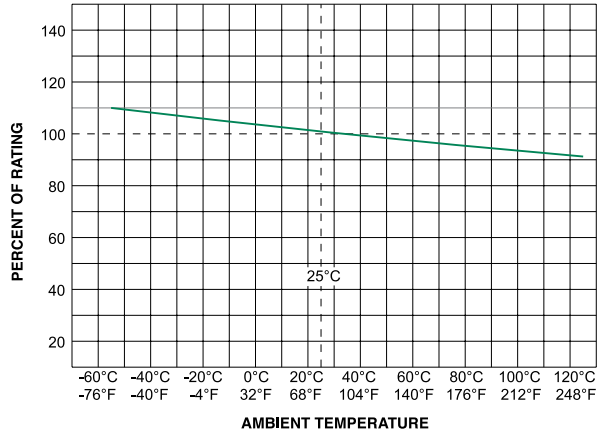
*Higher I²t version available. Please add suffix "D" to part numbers. For instance, 0325020.MXDP, 0326020.MXDP

I²t test at 10x rated current.

**Higher I²t version available. Please add suffix "W" to part numbers. For instance, 0325025.MXWP

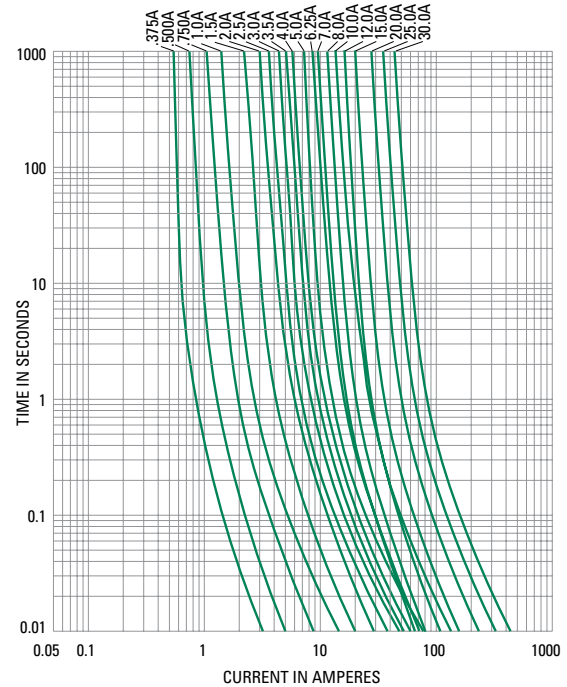
***Approved for cartridge versions only, and interrupting rating is 400A@125Vac and 400A@250Vac

Temperature Re-rating Curve

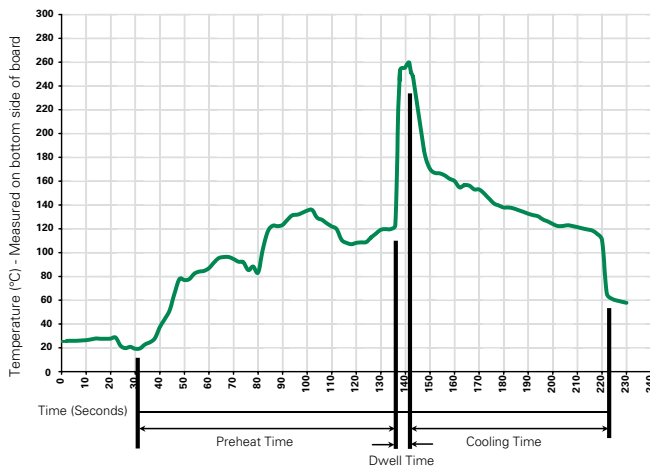


Note:
Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

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 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.

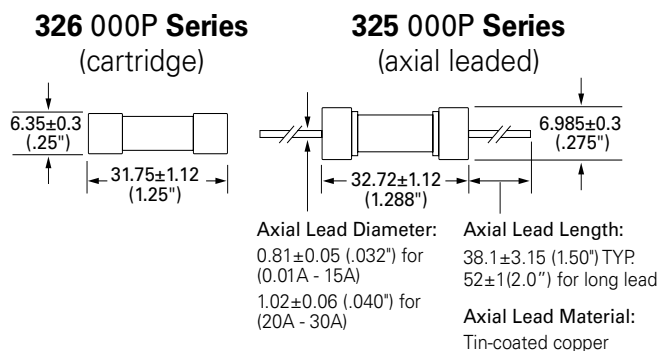
Product Characteristics

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

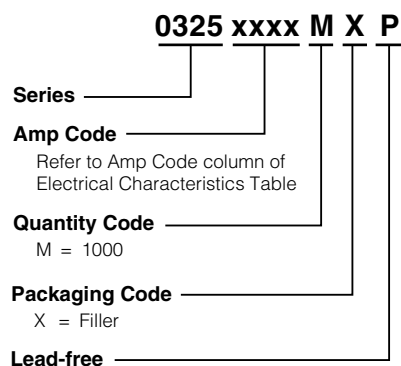
Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B: (5 cycles - 65°C to 125°C)
Vibration:	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High RH (95%) and Elevated temperature (40°C) for 240 hours
Salt Spray	MIL-STD-202, Method 101,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

Dimensions

Measurements displayed in millimeters (inches)



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
325 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	MX52 (long lead)	N/A
Bulk	N/A	1000	MX52L (long lead)	N/A
Bulk	N/A	1000	MXD	N/A
Bulk	N/A	1000	MXF31	N/A
Bulk	N/A	1000	MXW	N/A
326 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	MXCC	N/A
Bulk	N/A	1000	MXD	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 Littelfuse for applications greater than the max voltage and amperage shown.

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<u>032602.8HXP</u>	<u>0326025.HXP</u>	<u>0325.031HXP</u>	<u>0326.400MXP</u>	<u>0326.250HXP</u>	<u>0326.700HXP</u>	<u>0326007.MXP</u>
<u>0325002.MXP</u>	<u>0326.750HXP</u>	<u>0326010.HXP</u>	<u>0325.100MXP</u>	<u>0325.150MXP</u>	<u>032501.2HXP</u>	<u>0325.375MXP</u>
<u>0325003.HXP</u>	<u>0326.150MXP</u>	<u>0326020.HXP</u>	<u>0325.750MXP</u>	<u>032601.6MXP</u>	<u>0326001.HXP</u>	<u>0326.500HXP</u>
<u>0326.500MXP</u>	<u>0326005.HXP</u>	<u>0325.031MXP</u>	<u>032503.2MXP</u>	<u>0326.400HXP</u>	<u>0326.800HXP</u>	<u>0325.700HXP</u>
<u>032502.5HXP</u>	<u>0326007.HXP</u>	<u>0325.010HXP</u>	<u>0326.375MXP</u>	<u>0326015.MXP</u>	<u>0325.187MXP</u>	<u>0325.600MXP</u>
<u>032501.6HXP</u>	<u>0325015.HXP</u>	<u>032503.2HXP</u>	<u>0326002.HXP</u>	<u>0325004.HXP</u>	<u>03261.25MXP</u>	<u>0326030.HXP</u>
<u>0326.125HXP</u>	<u>0325004.MXP</u>	<u>0325012.MXP</u>	<u>0326.010HXP</u>	<u>0325012.HXP</u>	<u>0325015.MXP</u>	<u>0326012.HXP</u>
<u>032603.2MXP</u>	<u>0325.250MXP</u>	<u>0325008.MXP</u>	<u>0325.250HXP</u>	<u>0325025.MXP</u>	<u>0325003.MXP</u>	<u>0326004.MXP</u>
<u>0325.062HXP</u>	<u>0325.800HXP</u>	<u>0325020.HXP</u>	<u>0326001.MXP</u>	<u>0325.187HXP</u>	<u>032601.2MXP</u>	<u>032501.5HXP</u>
<u>0325025.HXP</u>	<u>0325008.HXP</u>	<u>0325.600HXP</u>	<u>0325010.MXP</u>	<u>0326.300HXP</u>	<u>0326003.HXP</u>	<u>032601.6HXP</u>
<u>0325.800MXP</u>	<u>0325.400MXP</u>	<u>0326005.MXP</u>	<u>0325030.MXP</u>	<u>0326010.MXP</u>	<u>0325020.MXDP</u>	<u>0325.400HXP</u>
<u>0326003.MXP</u>	<u>03261.25HXP</u>	<u>0325.100HXP</u>	<u>032502.8HXP</u>	<u>0325.500MXP</u>	<u>0325.125MXP</u>	<u>0326025.MXP</u>
<u>0325001.HXP</u>	<u>0326.187HXP</u>	<u>0325005.MXP</u>	<u>032601.5HXP</u>	<u>032502.8MXP</u>	<u>03251.25MXP</u>	<u>032601.2HXP</u>
<u>0325.062MXP</u>	<u>0326.600HXP</u>	<u>0326012.MXP</u>	<u>0325.500HXP</u>	<u>0326.375HXP</u>	<u>03256.25MXP</u>	<u>0326008.MXP</u>
<u>0325.300MXP</u>	<u>032501.5MXP</u>					