

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



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.

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

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 | RU | 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 | | 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@125Vdc | 0.0539 | 214.0 | x | | x | x | x | x | |
| 004. | 4 | 250 | 400A@250Vac 10KA@125Vdc 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@125Vdc 600A@125Vdc | 0.0067 | 129 | x | x | x | | x | x*** | |
| 012.* | 12 | 250 | 1500A@250Vac | 0.0011 | 618 | | x | x | | x | | |
| 015. | 15 | 250 | 400A@250Vac 10KA@125Vdc 600A@125Vdc | 0.0050 | 245 | x | x | x | | x | x*** | |
| 015.* | 15 | 250 | 1500A@250Vac | 0.0083 | 760 | | x | x | | x | | |
| 020. | 20 | 250 | 400A@250Vac 10KA@125Vdc 600A@125Vdc | 0.0034 | 575 | 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

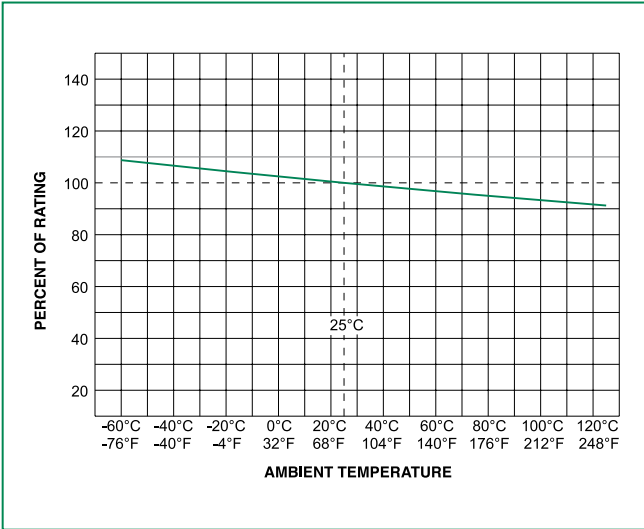
***Approved for cartridge versions only, and interrupting rating is 400A@125Vac and 400A@250Vac

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Specifications are subject to change without notice.

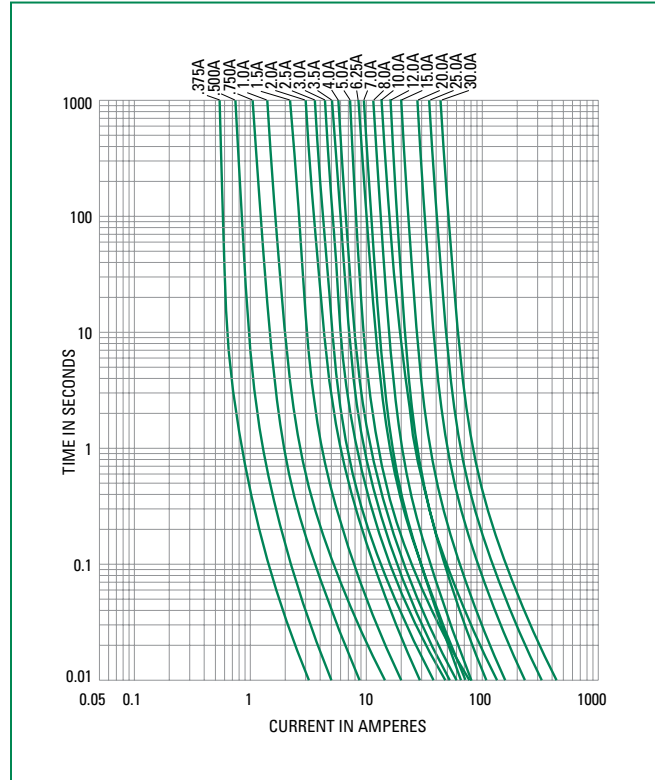
Revised: 12/16/16

Temperature Re-rating Curve

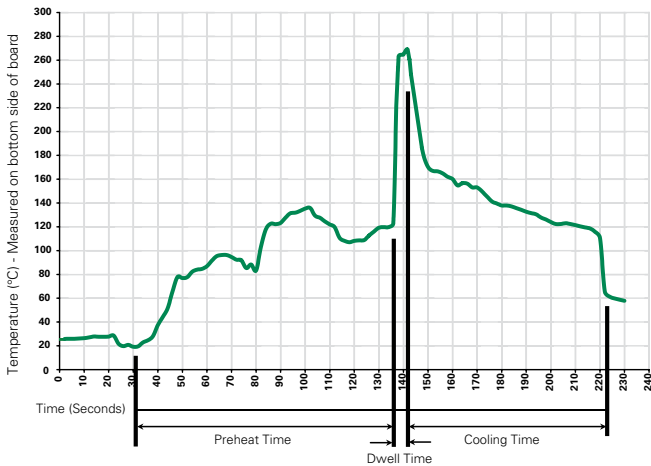


Note:
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

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 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.

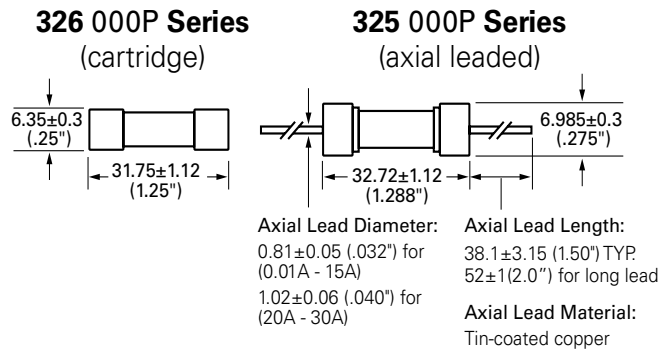
Product Characteristics

| | |
|--------------------------|---|
| 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 |

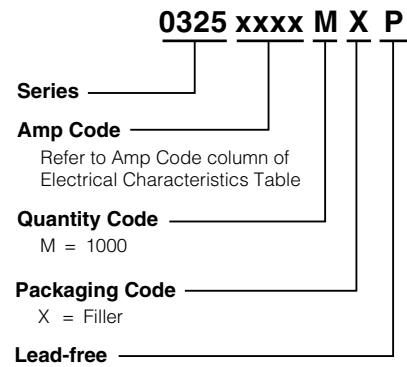
| | |
|------------------------------|---|
| Operating Temperature | -55°C to +125°C |
| Thermal Shock | MIL-STD-202, Method 107, Test Condition B:(5 cycles - 65°C to 125°C) |
| Vibration: | MIL-STD-202, Method 201 |
| Humidity | MIL-STD-202, Method 103, Test Condition A: High RH (95%) and Elevated temperature(40°C)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