

# 0239003.VXP Datasheet



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|                              |  |
|------------------------------|--|
| DiGi Electronics Part Number | 0239003.VXP-DG   |
| Manufacturer                 | <a href="#">Littelfuse</a>                                       |
| Manufacturer Product Number  | 0239003.VXP  |
| Description                  | FUSE GLASS 3A 250VAC 5X20MM                                      |
| Detailed Description         | 3 A 250 V AC DC Fuse Cartridge, Glass Requires Holder 5mm x 20mm |

This model 0239003.VXP is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

0239003.VXP

Series:

239

Mounting Type:

Requires Holder

Current Rating (Amps):

3 A

Response Time:

Slow Blow

Breaking Capacity @ Rated Voltage:

100A

Approval Agency:

CE, CSA, KC, PSE, UL

Color:

-

DC Cold Resistance:

0.04877 Ohms

Manufacturer:

Littelfuse

Product Status:

Active

Fuse Type:

Cartridge, Glass

Voltage Rating - AC:

250 V

Package / Case:

5mm x 20mm

Melting I<sup>2</sup>t:

129.51

Operating Temperature:

-55°C ~ 125°C

Size / Dimension:

0.205" Dia x 0.787" L (5.20mm x 20.00mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.10.0020

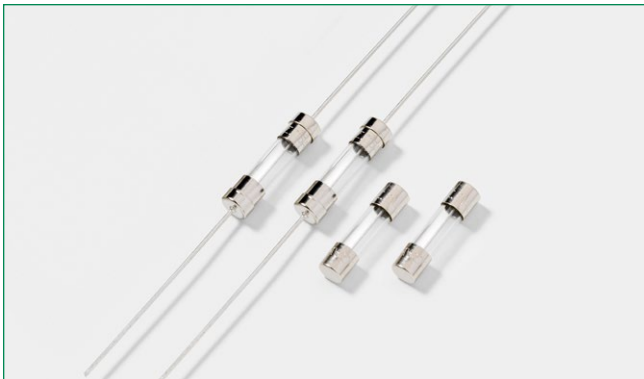
Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

## 239 Series, 5×20 mm, Slo-Blo® Fuse



### Description

5×20mm Slo-Blo® glass body cartridge fuse designed to UL specification.

### Features

- Designed to UL/CSA/ ANCE 248-1 and 248-14 Standards
- Available in cartridge and axial lead format
- 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               |
|--------|---|----------------------------|
|        | Cartridge:<br>NBK030609-JP1021A<br>NBK190609-JP1021A<br>NBK030609-JP1021B | 1A – 3.5A<br>4A – 5A<br>7A |
|        | Leaded:<br>NBK030609-JP1021C<br>NBK190609-JP1021B<br>NBK030609-JP1021D    | 1A – 3.5A<br>4A – 5A<br>7A |
|        | SU05001 – 2004A<br>SU05001 – 2014A  | 0.200A – 3.15A<br>4A – 7A  |
|        | E10480  | 0.080A – 7A                |
|        | 29862   | 0.200A – 3.15A<br>4A – 7A  |
|        | N/A   | 0.080A – 7A                |

### Electrical Characteristics for Series

| % of Ampere Rating | Ampere Ratings | Opening Time       |
|--------------------|----------------|--------------------|
| 100%               | All Ratings    | 4 hours, Minimum   |
| 135%               |                | 1 hour, Maximum    |
| 200%               |                | 2 minutes, Maximum |

### Additional Information



**Datasheet**



**Samples**



**Resources**



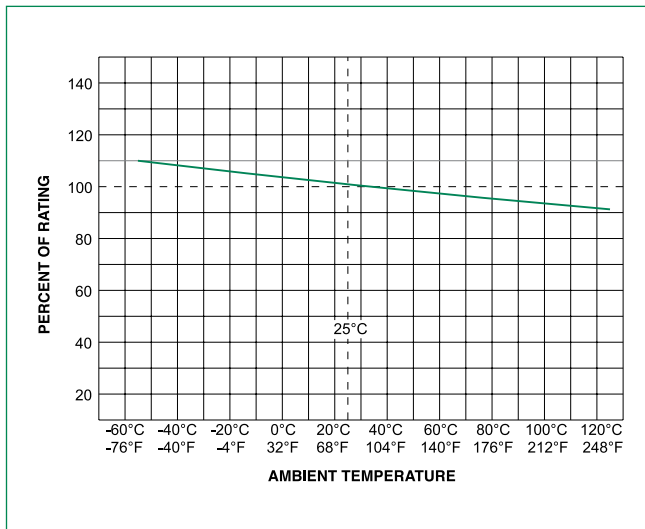
**Accessories**

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

**Electrical Characteristic Specification by Item**

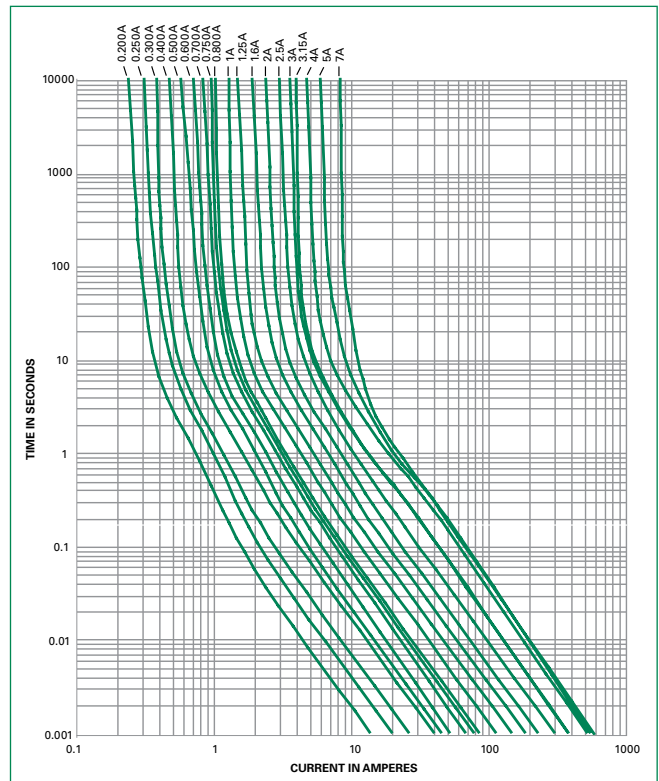
| Amp Code | Amp Rating (A) | Voltage Rating (V) | Interrupting Rating              | Nominal Cold Resistance (Ohms) | Nominal Melting I²t (A² sec) | Agency Approvals |    |      |   |    |
|----------|----------------|--------------------|----------------------------------|--------------------------------|------------------------------|------------------|----|------|---|----|
|          |                |                    |                                  |                                |                              | UL               | SP | PS E | K | CE |
| .080     | 0.08           | 250                | 35A @ 250 VAC<br>10kA @ 125 VAC  | 28.1750                        | 0.02500                      | x                |    |      |   | x  |
| .100     | 0.1            | 250                |                                  | 17.3425                        | 0.05500                      | x                |    |      |   | x  |
| .125     | 0.125          | 250                |                                  | 11.6000                        | 0.08500                      | x                |    |      |   | x  |
| .150     | 0.15           | 250                |                                  | 8.1000                         | 0.13000                      | x                |    |      |   | x  |
| .200     | 0.2            | 250                |                                  | 3.8725                         | 0.16500                      | x                | x  |      |   | x  |
| .250     | 0.25           | 250                |                                  | 3.0700                         | 0.34000                      | x                | x  |      |   | x  |
| .300     | 0.3            | 250                |                                  | 2.3000                         | 0.61500                      | x                | x  |      |   | x  |
| .400     | 0.4            | 250                |                                  | 1.4750                         | 2.02000                      | x                | x  |      |   | x  |
| .500     | 0.5            | 250                |                                  | 0.9090                         | 1.98500                      | x                | x  |      |   | x  |
| .600     | 0.6            | 250                |                                  | 0.6990                         | 2.41500                      | x                | x  |      |   | x  |
| .700     | 0.7            | 250                |                                  | 0.5375                         | 4.12000                      | x                | x  |      |   | x  |
| .750     | 0.75           | 250                |                                  | 0.4710                         | 5.42500                      | x                | x  |      |   | x  |
| .800     | 0.8            | 250                |                                  | 0.4155                         | 7.56500                      | x                | x  |      |   | x  |
| 001.     | 1              | 250                |                                  | 0.2965                         | 11.29500                     | x                | x  | x    |   | x  |
| 1.25     | 1.25           | 250                |                                  | 0.1980                         | 19.52500                     | x                | x  | x    |   | x  |
| 01.6     | 1.6            | 250                |                                  | 0.1205                         | 30.43000                     | x                | x  | x    |   | x  |
| 002.     | 2              | 250                |                                  | 0.0943                         | 50.58500                     | x                | x  | x    |   | x  |
| 02.5     | 2.5            | 250                | 0.0583                           | 79.70500                       | x                            | x                | x  |      | x |    |
| 003.     | 3              | 250                | 0.04877                          | 129.51000                      | x                            | x                | x  |      | x |    |
| 3.15     | 3.15           | 250                | 0.0414                           | 128.05000                      | x                            | x                | x  |      | x |    |
| 03.2     | 3.2            | 250                | 0.0385                           | 128.05000                      | x                            |                  | x  |      | x |    |
| 03.5     | 3.5            | 250                | 0.0370                           | 128.05000                      | x                            |                  | x  |      | x |    |
| 004.     | 4              | 125                | 0.0312                           | 270.703                        | x                            | x                | x  |      | x |    |
| 005.     | 5              | 125                | 0.0199                           | 302.836                        | x                            | x                | x  |      | x |    |
| 007.     | 7              | 125                | 0.0114                           | 305.758                        | x                            | x                | x  |      | x |    |
|          |                |                    | 10kA @ 125 VAC<br>100A @ 250 VAC |                                |                              |                  |    |      |   |    |
|          |                |                    | 10kA @ 125 VAC                   |                                |                              |                  |    |      |   |    |

**Temperature Re-rating Curve**

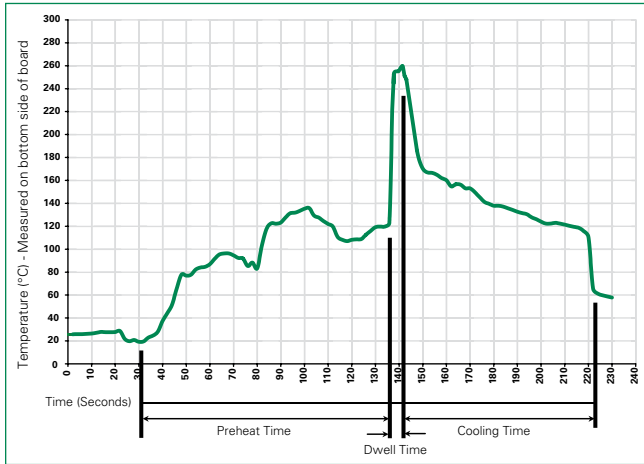


**Note:**  
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

**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.**

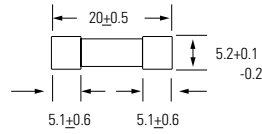
### Product Characteristics

|                          |   |
|--------------------------|---|
| <b>Materials</b>         | Body: Glass<br>Cap: Nickel-plated brass<br>Leads: Tin-plated Copper                         |
| <b>Terminal Strength</b> | MIL-STD-202, Method 211, Test Condition A   |
| <b>Solderability</b>     | MIL-STD-202 Method 208  |
| <b>Product Marking</b>   | Cap 1: Brand logo, current and voltage rating<br>Cap 2: Series and agency approval markings |

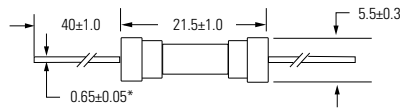
|                              |   |
|------------------------------|---|
| <b>Operating Temperature</b> | -55°C to +125°C   |
| <b>Thermal Shock</b>         | MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)                           |
| <b>Vibration</b>             | MIL-STD-202, Method 201   |
| <b>Humidity</b>              | MIL-STD-202, Method 103, Test Condition A. high RH (95%) and elevated temp (40°C) for 240 hours |
| <b>Salt Spray</b>            | MIL-STD-202, Method 101, Test Condition B   |

**Dimensions**

0239 000P



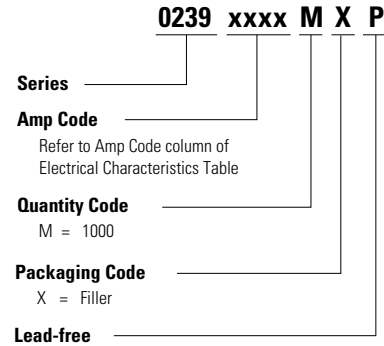
0239 000XEP



Notes:  
\* Ratings above 6.3A have 0.8±0.05 diameter lead.

All dimensions in mm

**Part Numbering System**



**Packaging**

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width     |
|-------------------|-------------------------|----------|---------------------------|------------------|
| <b>239 Series</b> |                         |          |                           |                  |
| Bulk              | N/A                     | 1000     | MX                        | N/A              |
| Bulk              | N/A                     | 1000     | MXE                       | N/A              |
| Reel and Tape     | EIA 296-E               | 1000     | MRET1                     | T1=52mm (2.062") |
| Bulk              | N/A                     | 1000     | MXB                       | N/A              |
| Bulk              | N/A                     | 100      | HX                        | N/A              |
| Bulk              | N/A                     | 100      | HXE                       | N/A              |

**Recommended Accessories**

| Accessory Type | Series                  | Description   | Max Application Voltage | Max Application Amperage |
|----------------|-------------------------|---|-------------------------|--------------------------|
| Holder         | <a href="#">345_ISF</a> | Panel Mount Shock-Safe Fuseholder   | 250                     | 10                       |
|                | <a href="#">345</a>     | Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options |                         | 20                       |
|                | <a href="#">830</a>     | PC Mount Shock-Safe Miniature Fuseholder                                  |                         | 16                       |
| Block          | <a href="#">520</a>     | Metric OMNI-BLOK® Fuse Block  |                         | 10                       |
|                | <a href="#">646</a>     | PC Mount Miniature Fuse Block   |                         | 6.3                      |
|                | <a href="#">658</a>     | Surface Mount Miniature Fuse Block  |                         | 10                       |
| Clip           | <a href="#">520_W</a>   | PC Mount Miniature Fuse Clip  |                         | 6.3                      |
|                | <a href="#">111</a>     | PC Board Mount Fuse Clip  |                         | 10                       |
|                | <a href="#">445</a>     | PC Board Mount Fuse Clip  |                         | 10                       |

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.

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