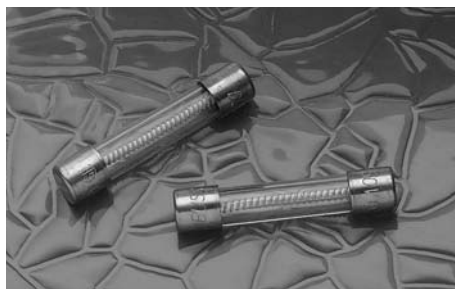


# MDL

## 1/4" x 1 1/4" Time-delay glass tube fuses



### Product features

- Time-delay
- Optional axial leads available
- 1/4 x 1 1/4 (6.4 x 31.7mm) physical size
- Glass tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

### Environmental data

- Shock: 1A thru 30A – MIL-STD-202, Method 207, (HI Shock)
- Vibration: 1/4A thru 30A – MIL-STD-202, Method 204, Test Condition C (Except 5g, 500HZ)

### Agency information

- UL Listed Card: MDL 1/16 - 8A (Guide JDYX, File E19180)
- UL Recognized Card: MDL 9 - 30A (Guide JDYX2, File E19180)
- CSA Certification Card: MDL 1/16 - 8A (Class No. 1422-01)
- CSA Component Acceptance: MDL 9-30A (Class No. 1422-30)
- CE

### Ordering

- Specify packaging code
- Insert packaging code prefix before part number. E.g., BK (or BK1)-MDL-5-R
- Specify option codes if desired
- For axial leads, insert "V" between catalog series and amp rating. E.g., BK-MDL-V-5-R
- For board washable, insert "B" between catalog series and amp rating. E.g., BK-MDL-B-5-R
- For axial leads and board washable, insert "B" then "V" between catalog series and amp rating. E.g., BK-MDL-BV-5-R

| Part Number | Voltage Rating Vac | Specifications<br>AC Interrupting Rating* (amps)@ |        |       | Typical DC Cold Resistance** (Ω) | Typical Melting I <sup>2</sup> t†† AC | Typical Voltage Drop‡ |
|-------------|--------------------|---------------------------------------------------|--------|-------|----------------------------------|---------------------------------------|-----------------------|
|             |                    | 250Vac                                            | 125Vac | 32Vac |                                  |                                       |                       |
| MDL-1/16-R  | 250                | 35                                                | 10000  | -     | 45.6                             | 0.0046                                | 2.79                  |
| MDL-1/10-R  | 250                | 35                                                | 10000  | -     | 15.68                            | 0.0420                                | 1.95                  |
| MDL-1/8-R   | 250                | 35                                                | 10000  | -     | 12.238                           | 0.0422                                | 1.52                  |
| MDL-3/16-R  | 250                | 35                                                | 10000  | -     | 4.81                             | 0.116                                 | 1.05                  |
| MDL-2/10-R  | 250                | 35                                                | 10000  | -     | 5.234                            | 0.314                                 | 0.972                 |
| MDL-1/4-R   | 250                | 35                                                | 10000  | -     | 3.208                            | 0.447                                 | 0.965                 |
| MDL-3/10-R  | 250                | 35                                                | 10000  | -     | 2.046                            | 0.412                                 | 0.808                 |
| MDL-3/8-R   | 250                | 35                                                | 10000  | -     | 1.567                            | 0.982                                 | 1.46                  |
| MDL-1/2-R   | 250                | 35                                                | 10000  | -     | 0.943                            | 1.656                                 | 1.27                  |
| MDL-3/4-R   | 250                | 35                                                | 10000  | -     | 0.397                            | 4.343                                 | 1.01                  |
| MDL-1-R     | 250                | 35                                                | 10000  | -     | 0.273                            | 11.498                                | 0.995                 |
| MDL-1-1/4-R | 250                | 100                                               | 10000  | -     | 0.205                            | 86.2                                  | 0.722                 |
| MDL-1-1/2-R | 250                | 100                                               | 10000  | -     | 0.156                            | 22.7                                  | 0.721                 |
| MDL-2-R     | 250                | 100                                               | 10000  | -     | 0.116                            | 62.3                                  | 0.644                 |
| MDL-2-1/4-R | 250                | 100                                               | 10000  | -     | 0.096                            | 49.6                                  | 0.535                 |
| MDL-2-1/2-R | 250                | 100                                               | 10000  | -     | 0.081                            | 63.1                                  | 0.410                 |
| MDL-3-R     | 250                | 100                                               | 10000  | -     | 0.057                            | 67.5                                  | 0.345                 |
| MDL-4-R     | 250                | 200                                               | 10000  | -     | 0.038                            | 19.3                                  | 0.187                 |
| MDL-5-R     | 250                | 200                                               | 10000  | -     | 0.025                            | 32.0                                  | 0.160                 |
| MDL-6-R     | 250                | 200                                               | 10000  | -     | 0.022                            | 37.4                                  | 0.155                 |
| MDL-6-1/4-R | 250                | 200                                               | 10000  | -     | 0.02                             | 38.7                                  | 0.152                 |
| MDL-7-R     | 250                | 200                                               | 10000  | -     | 0.018                            | 42.7                                  | 0.140                 |
| MDL-8-R     | 250                | 200                                               | 10000  | -     | 0.015                            | 47.8                                  | 0.119                 |
| MDL-9-R     | 32                 | -                                                 | -      | 1000  | 0.012                            | 51.5                                  | 0.124                 |
| MDL-10-R    | 32                 | -                                                 | -      | 1000  | 0.01                             | 64.4                                  | 0.114                 |
| MDL-15-R    | 32                 | -                                                 | -      | 1000  | 0.005                            | 354.0                                 | 0.130                 |
| MDL-20-R    | 32                 | -                                                 | -      | 1000  | 0.004                            | 2914.0                                | 0.530                 |
| MDL-25††    | 32                 | -                                                 | -      | 1000  | 0.01225                          | 15221.0                               | 0.30                  |
| MDL-30††    | 32                 | -                                                 | -      | 1000  | 0.0011                           | 15581.0                               | 0.40                  |

\* Interrupting Ratings (Interrupting ratings were measured at 70% - 80% power factor on AC)

\*\* DC Cold Resistance (Measured at ≤10% of rated current)

† Typical Melting I<sup>2</sup>t (A<sup>2</sup>Sec) (I<sup>2</sup>t was measured at listed interrupting rating and rated voltage.)

‡ Typical Voltage Drop (Voltage drop was measured at 25°C±3°C ambient temperature at rated current)

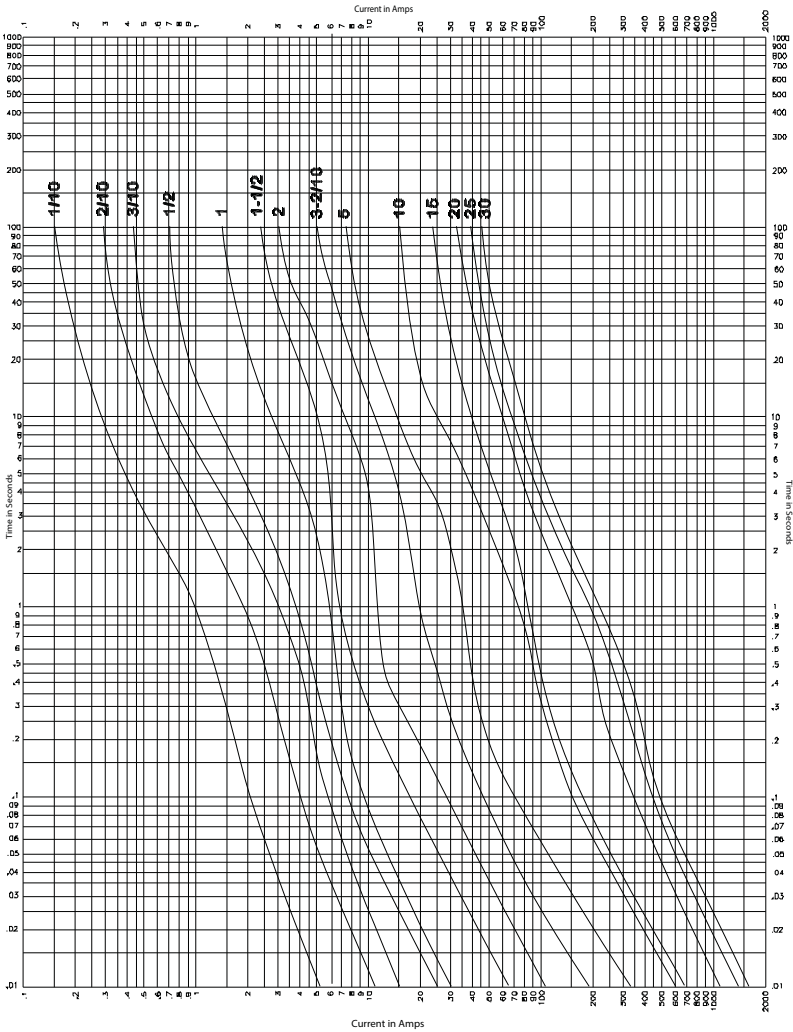
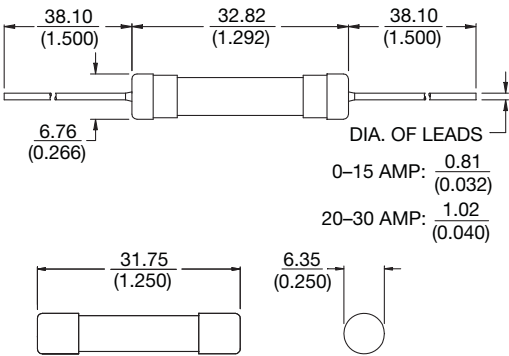
†† MDL-25 & MDL-30 not available in RoHS compliant construction.



Powering Business Worldwide

Time-Current Curve

Dimensions - mm (in)  
Drawing Not to Scale



| Packaging Code |                                            |
|----------------|--------------------------------------------|
| Packaging Code | Description                                |
| BK             | 100 fuses packed into a cardboard carton   |
| BK1            | 1,000 fuses packed into a cardboard carton |
| BK8            | 8,000 fuses packed into a cardboard carton |

| Option Code |                                                                    |
|-------------|--------------------------------------------------------------------|
| Option Code | Description                                                        |
| B           | Sealed to withstand aqueous cleaning (Board Washable)              |
| V           | Axial leads - copper tinned wire with nickel plated brass overcaps |

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

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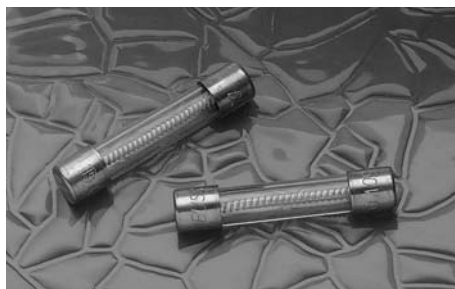
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# MDL

## 1/4" x 1 1/4" Time-delay glass tube fuses

RoHS



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- 1/4 x 1 1/4 (6.4 x 31.7mm) physical size
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| Specifications |                    |                                 |        |       |                                  |                                       |                       |
|----------------|--------------------|---------------------------------|--------|-------|----------------------------------|---------------------------------------|-----------------------|
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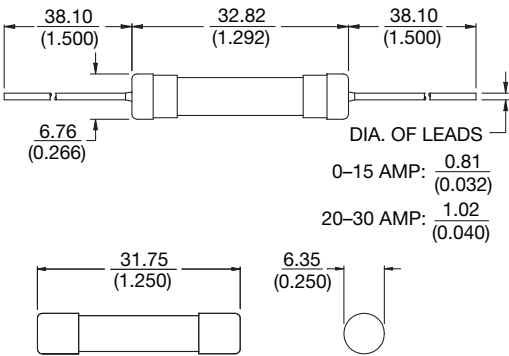
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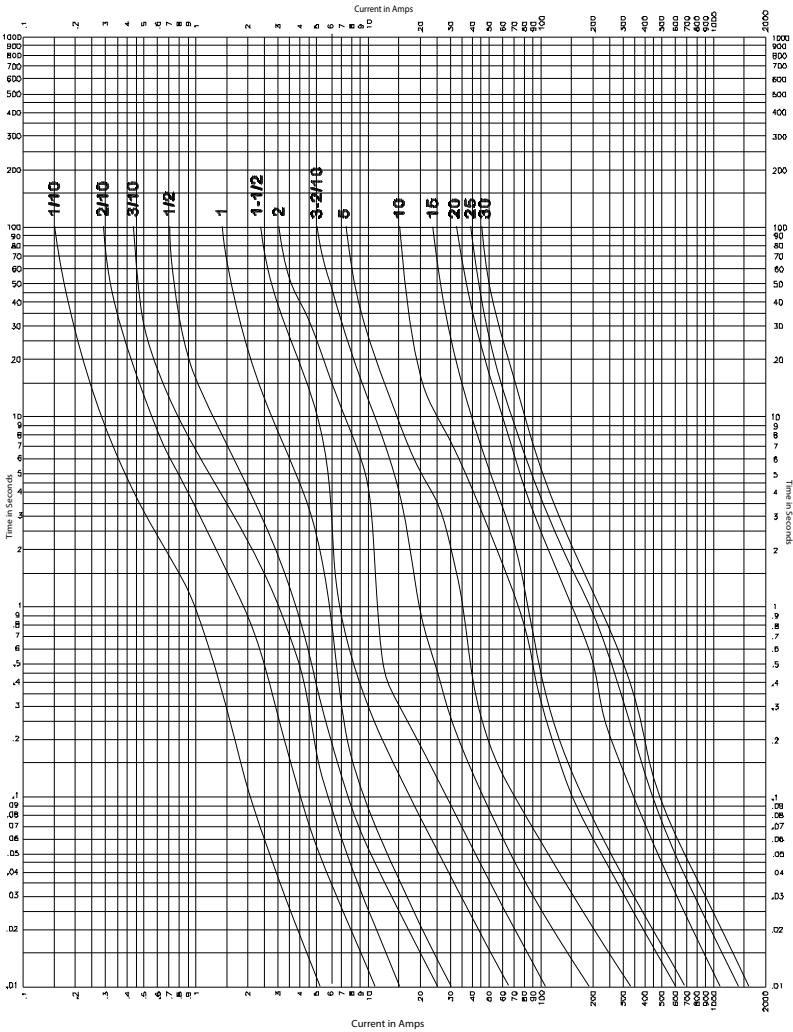
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Powering Business Worldwide

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