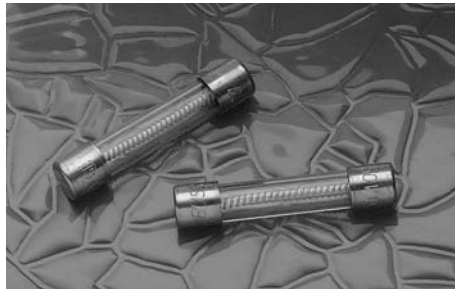


# MDL

## 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                  |        |       | Typical DC Cold Resistance** (Ω) | Typical Melting I <sup>2</sup> t† AC | Typical Voltage Drop‡ |
|-------------|--------------------|---------------------------------|--------|-------|----------------------------------|--------------------------------------|-----------------------|
|             |                    | AC Interrupting Rating* (amps)@ |        |       |                                  |                                      |                       |
|             |                    | 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.)

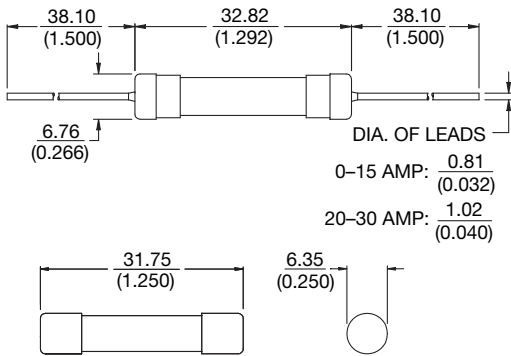
‡ Typical Voltage Drop (Voltage drop was measured at 25°C±3°C ambient temperature at rated current)

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

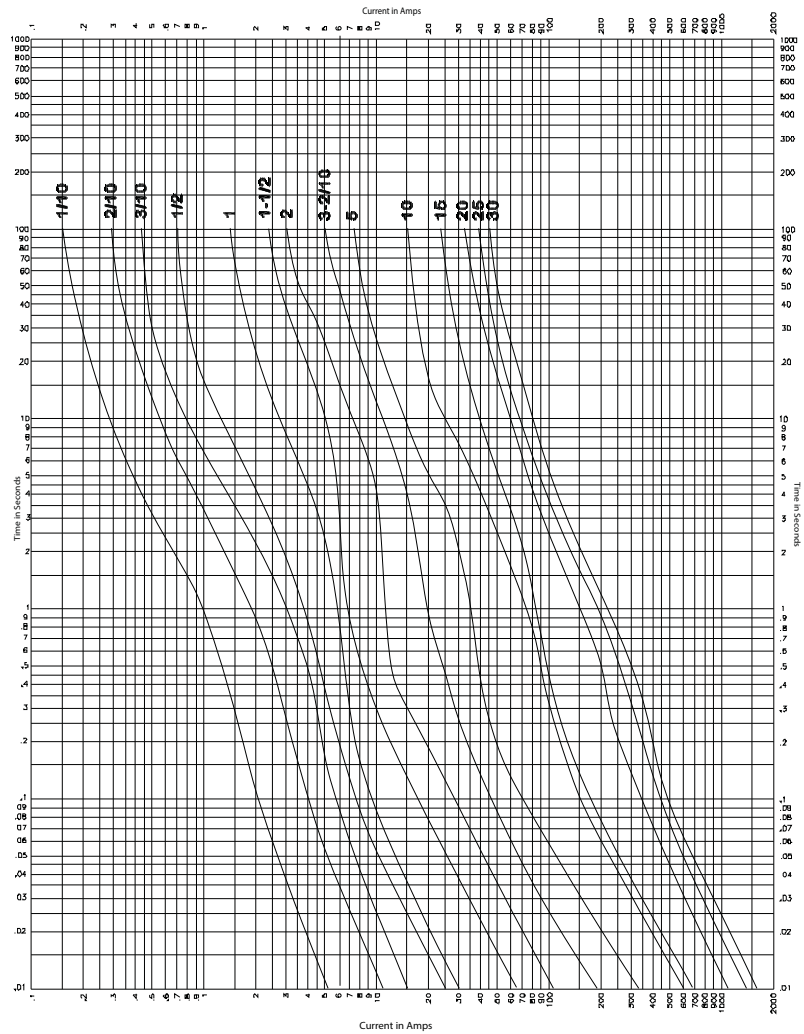


Powering Business Worldwide

**Dimensions - mm (in)**  
Drawing Not to Scale



Time-Current Curve



| 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 |

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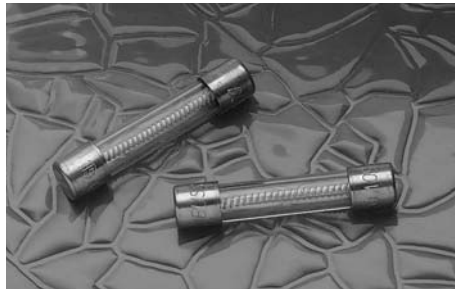
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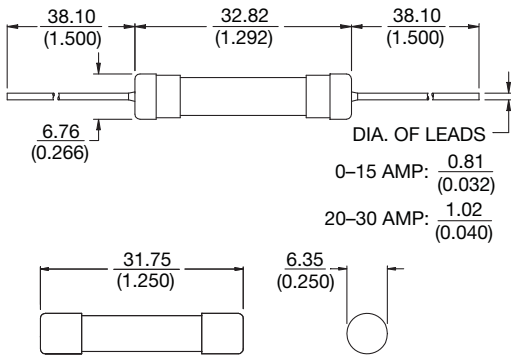
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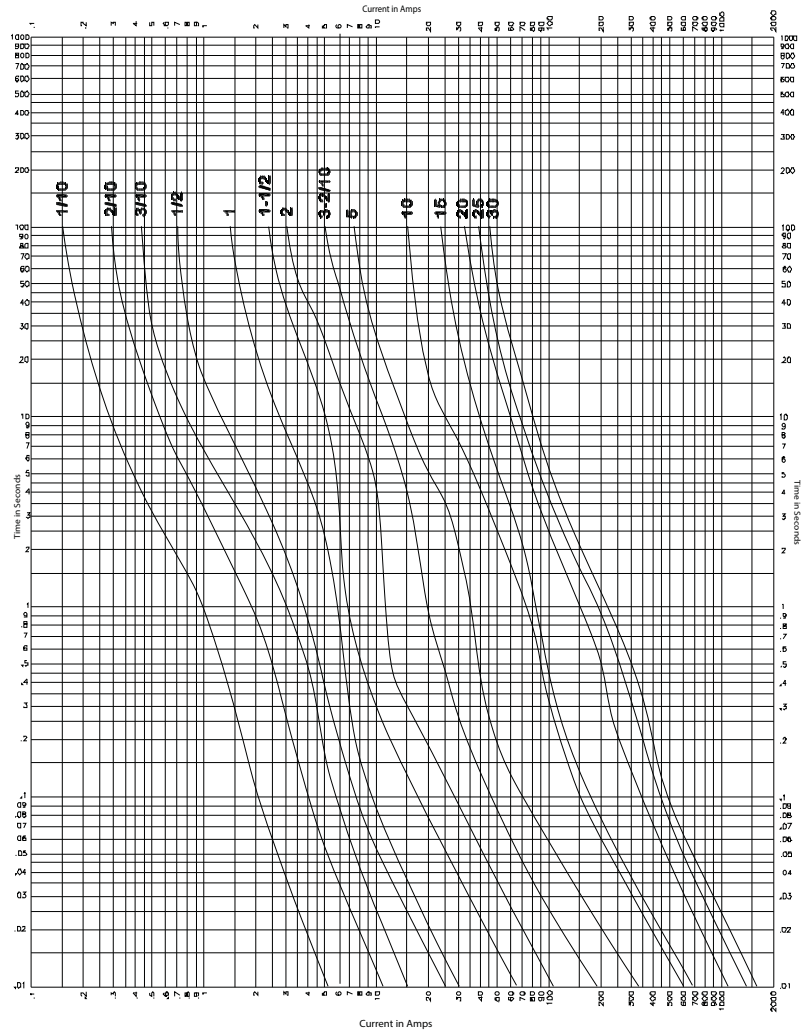


Powering Business Worldwide

**Dimensions - mm (in)**  
Drawing Not to Scale



Time-Current Curve



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| BK1            | 1,000 fuses packed into a cardboard carton |
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| Option Code | Description  |
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