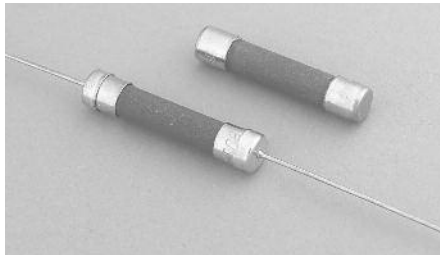


# ABC

## 1/4" x 1 1/4" Fast-acting ceramic tube fuses

RoHS



### Product features

- Fast-acting, ceramic tube
- Optional axial leads available
- 1/4" x 1 1/4" (6.4 x 31.7mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

### Agency information

- UL Listed Guide JDYX & File E19180
- UL Recognition Guide JDYX2 & File E19180
- CSA Certification: Class No: 1422-01 & 1422-30, File 53787

### Ordering

- Specify packaging, product and option code

| ELECTRICAL CHARACTERISTICS |                     |
|----------------------------|---------------------|
| % of Amp Rating            | Opening Time        |
| 100%                       | 4 Hours Minimum     |
| 135%                       | 60 Minutes maximum  |
| 200%                       | 120 Seconds Maximum |

| Part Number | Voltage Ratings |     | Vac Interrupting Ratings* (amps) |        | Vdc Interrupting Ratings (amps) |        | Typical DC Cold Resistance (Ω)** | Typical Pre-Arc I <sup>2</sup> t AC† | Typical Voltage Drop (V)‡ | Agency Approvals |    |     |
|-------------|-----------------|-----|----------------------------------|--------|---------------------------------|--------|----------------------------------|--------------------------------------|---------------------------|------------------|----|-----|
|             | Vac             | Vdc | 250V                             | 125V   | 125V                            | 75V    |                                  |                                      |                           | UL               | UR | CSA |
|             | ABC-1/4-R       | 250 | 125                              | 35     | 10,000                          | 10,000 | —                                | 2.950                                | 0.0020                    | 0.35             | X  |     |
| ABC-1/2-R   | 250             | 125 | 35                               | 10,000 | 10,000                          | —      | 0.587                            | 0.0390                               | 0.41                      | X                |    | X   |
| ABC-3/4-R   | 250             | 125 | 35                               | 10,000 | 10,000                          | —      | 0.300                            | 0.1450                               | 0.32                      | X                |    | X   |
| ABC-1-R     | 250             | 125 | 35                               | 10,000 | 10,000                          | —      | 0.1950                           | 0.4310                               | 0.3                       | X                |    | X   |
| ABC-1-1/2-R | 250             | 125 | 100                              | 10,000 | 10,000                          | —      | 0.131                            | 1.1630                               | 0.28                      | X                |    | X   |
| ABC-2-R     | 250             | 125 | 100                              | 10,000 | 10,000                          | —      | 0.0890                           | 2.1670                               | 0.31                      | X                |    | X   |
| ABC-2-1/2-R | 250             | 125 | 100                              | 10,000 | 10,000                          | —      | 0.061                            | 4.4670                               | 0.23                      | X                |    | X   |
| ABC-3-R     | 250             | 125 | 100                              | 10,000 | 10,000                          | —      | 0.047                            | 6.55                                 | 0.14                      | X                |    | X   |
| ABC-4-R     | 250             | 125 | 200                              | 10,000 | 10,000                          | —      | 0.031                            | 22.28                                | 0.17                      | X                |    | X   |
| ABC-5-R     | 250             | 125 | 200                              | 10,000 | 10,000                          | —      | 0.026                            | 32.83                                | 0.22                      | X                |    | X   |
| ABC-6-R     | 250             | 125 | 200                              | 10,000 | 10,000                          | —      | 0.021                            | 58                                   | 0.19                      | X                |    | X   |
| ABC-7-R     | 250             | 125 | 200                              | 10,000 | 10,000                          | —      | 0.016                            | 109.33                               | 0.17                      | X                |    | X   |
| ABC-8-R     | 250             | 125 | 200                              | 10,000 | 10,000                          | —      | 0.014                            | 116.5                                | 0.19                      | X                |    | X   |
| ABC-10-R    | 250             | 125 | 200                              | 10,000 | 10,000                          | —      | 0.011                            | 208.8                                | 0.15                      | X                |    | X   |
| ABC-12-R    | 250             | 125 | 750                              | 10,000 | 10,000                          | —      | 0.0068                           | 133.3                                | 0.1                       | X                |    | X   |
| ABC-15-R    | 250             | 125 | 750                              | 10,000 | 10,000                          | —      | 0.00553                          | 200.2                                | 0.1                       | X                |    | X   |
| ABC-18-R    | 250             | —   | 400                              | 1000   | —                               | —      | 0.00465                          | 400                                  | 0.1                       |                  | X  | X   |
| ABC-20-R    | 250             | 125 | 400                              | 1000   | 10,000                          | —      | 0.00366                          | 550.8                                | 0.1                       |                  | X  | X   |
| ABC-25-R    | 250             | 125 | 200                              | 1000   | 400                             | 1000   | 0.0028                           | 839.3                                | 0.09                      |                  | X  | X** |
| ABC-30-R    | 250             | 125 | 200                              | 1000   | 400                             | 1000   | 0.002225                         | 1429                                 | 0.09                      |                  | X  | X** |

\* Interrupting ratings measured at 70% - 80% power factor on AC. The interrupting ratings for 18A and 20A were measured at 85% - 95% power factor on AC. The interrupting ratings for 25A and 30A were measured at 89% power factor on AC.

\*\* Typical DC cold resistance measured at <10% of rated current.

† Typical melting I<sup>2</sup>t measured at listed interrupting rating and rated voltage.

‡ Typical voltage drop measured at 25°C±3°C ambient temperature at rated current.

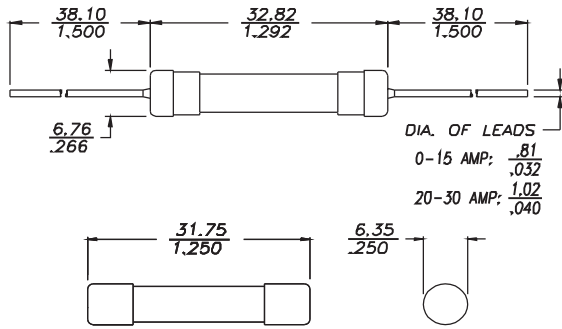
‡‡ CSA approvals for 25A and 30A are at 125Vac - IR 1000A and 125Vdc - IR 400A (IR 1000A at 75Vdc)



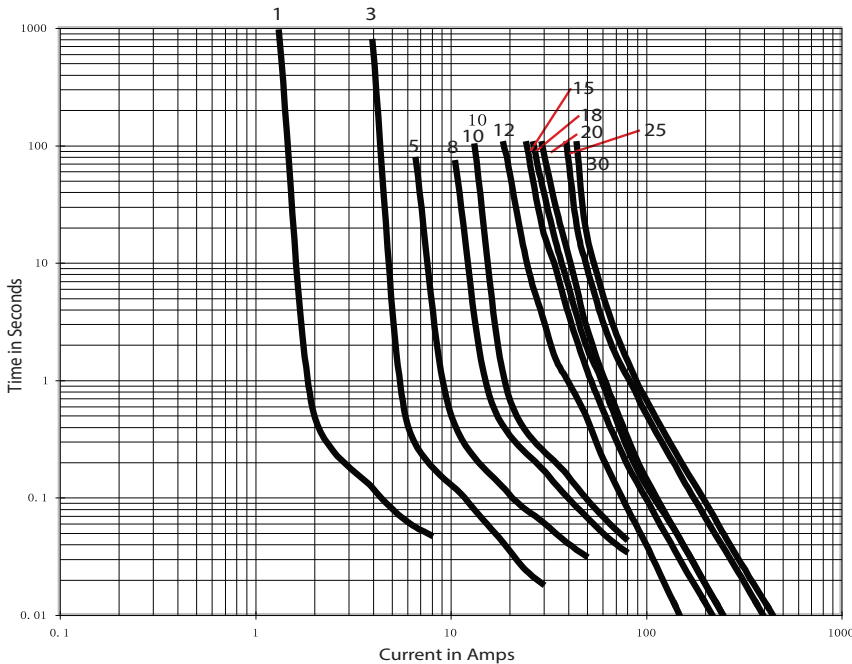
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**Dimensions - mm**

Drawing Not to Scale



**Time-Current Curves**



| PACKAGING CODE |   |
|----------------|---|
| Packaging Code | Description   |
| BK             | 100 pieces of fuses packed into a cardboard carton  |
| BK1            | 1000 pieces of fuses packed into a cardboard carton |
| BK8            | 8000 pieces of fuses packed into a cardboard carton |

| OPTION CODE |  |
|-------------|--|
| Option Code | Description  |
| V           | Axial leads - copper tinned wire with nickel plated brass overcaps |

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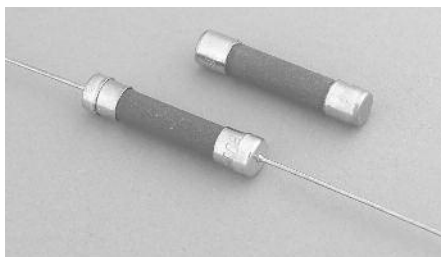
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# ABC

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|----------------------------|---------------------|
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### Ordering

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|-------------|-----------------|-----|----------------------------------|--------|---------------------------------|--------|----------------------------------|--------------------------------------|---------------------------|------------------|----|-----|
|             | Vac             | Vdc | 250V                             | 125V   | 125V                            | 75V    |                                  |                                      |                           | UL               | UR | CSA |
|             | ABC-1/4-R       | 250 | 125                              | 35     | 10,000                          | 10,000 | —                                | 2.950                                | 0.0020                    | 0.35             | X  |     |
| ABC-1/2-R   | 250             | 125 | 35                               | 10,000 | 10,000                          | —      | 0.587                            | 0.0390                               | 0.41                      | X                |    | X   |
| ABC-3/4-R   | 250             | 125 | 35                               | 10,000 | 10,000                          | —      | 0.300                            | 0.1450                               | 0.32                      | X                |    | X   |
| ABC-1-R     | 250             | 125 | 35                               | 10,000 | 10,000                          | —      | 0.1950                           | 0.4310                               | 0.3                       | X                |    | X   |
| ABC-1-1/2-R | 250             | 125 | 100                              | 10,000 | 10,000                          | —      | 0.131                            | 1.1630                               | 0.28                      | X                |    | X   |
| ABC-2-R     | 250             | 125 | 100                              | 10,000 | 10,000                          | —      | 0.0890                           | 2.1670                               | 0.31                      | X                |    | X   |
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| ABC-10-R    | 250             | 125 | 200                              | 10,000 | 10,000                          | —      | 0.011                            | 208.8                                | 0.15                      | X                |    | X   |
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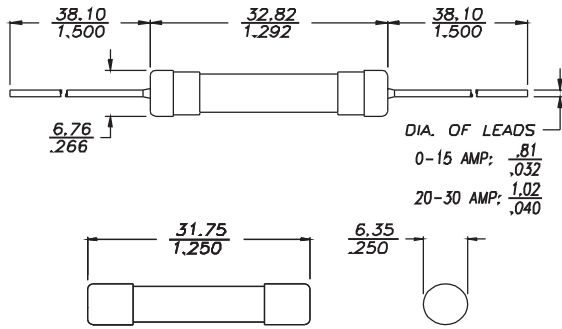
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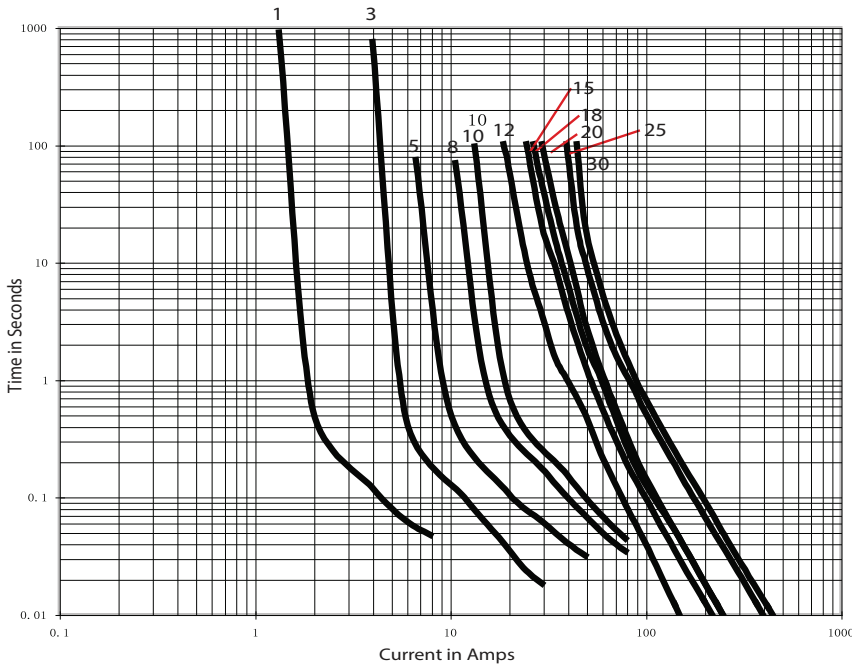
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