

## ¼" x 1 ¼" Glass Tube Fuses

ABC Series, Fast-Acting, Ceramic Tube

RoHS

### Description

- Fast-acting, ceramic tube
- Optional axial leads available
- ¼" x 1 ¼" (6.4 x 31.7mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

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

### Agency Information

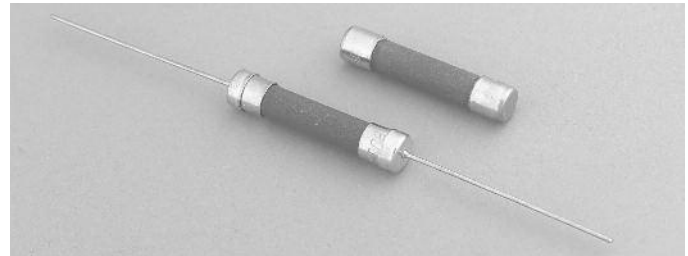
- UL Listed Guide JDYX & File E19180
- UL Recognition Guide JDYX2 & File E19180
- CSA Certification: Class No: 1422-01 & 1422-30, File 53787

### Environmental Data

- Shock: ¼A - 30A – MIL-STD-202, Method 213, Test Condition J
- Vibration: ¼A - 30A – MIL-STD-202, Method 204, Test Condition C (Except 5g, 500Hz)

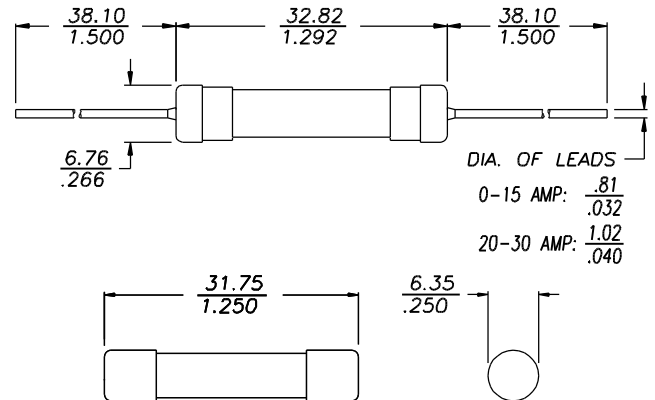
### Ordering

- Specify packaging, product and option code



### Dimensions - mm

Drawing Not to Scale



| Specifications |                 |     |                                  |        |                                 |      |                                  |                                    |                           |                  |    |     |
|----------------|-----------------|-----|----------------------------------|--------|---------------------------------|------|----------------------------------|------------------------------------|---------------------------|------------------|----|-----|
| Part Number    | Voltage Ratings |     | Vac Interrupting Ratings* (amps) |        | Vdc Interrupting Ratings (amps) |      | Typical DC Cold Resistance (Ω)** | Typical Pre-Arc I <sup>†</sup> AC† | Typical Voltage Drop (V)‡ | Agency Approvals |    |     |
|                | Vac             | Vdc | 250                              | 125    | 125                             | 75   |                                  |                                    |                           | UL               | UR | CSA |
| ABC-¼-R        | 250             | 125 | 35                               | 10,000 | 10,000                          | —    | 2.950                            | 0.0020                             | 0.35                      | X                |    | X   |
| ABC-½-R        | 250             | 125 | 35                               | 10,000 | 10,000                          | —    | 0.587                            | 0.0390                             | 0.41                      | X                |    | X   |
| ABC-¾-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-1-½-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-2-½-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.

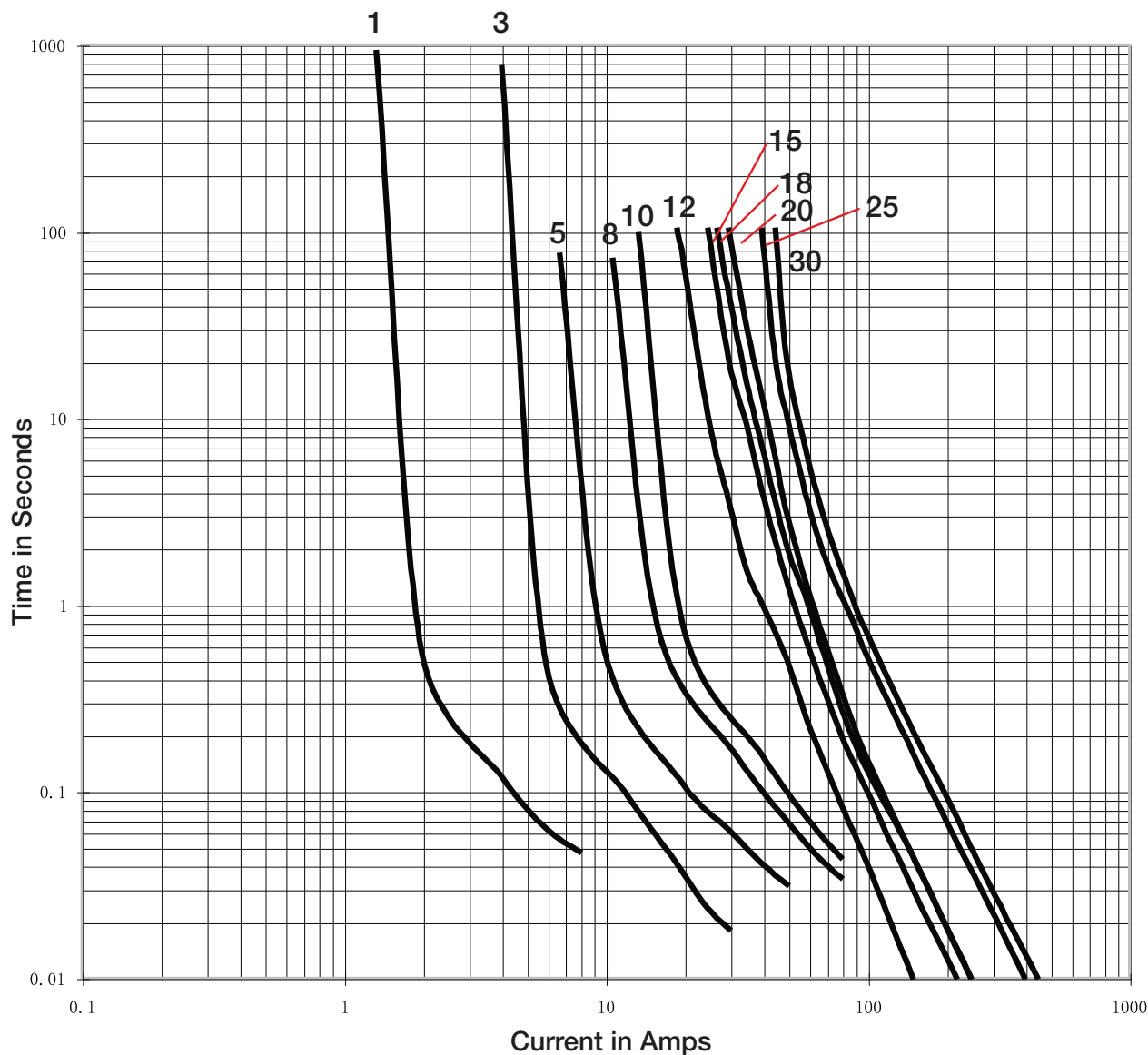
\*\* Typical DC cold resistance measured at <10% of rated current.

† 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)

## 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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