## 1/4" x $11 / 4$ " Glass Tube Fuses

## ABC Series, Fast-Acting, Ceramic Tube

## Description

- Fast-acting, ceramic tube
- Optional axial leads available
- $1 / 4$ " $\times 1 / 1 / "$ ( $6.4 \times 31.7 \mathrm{~mm}$ ) 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: $1 / 4$ A - 30A - MIL-STD-202, Method 213, Test Condition J
- Vibration: 1 14A - 30A - MIL-STD-202, Method 204, Test Condition C (Except 5g, 500Hz)


## Ordering



Dimensions - mm
Drawing Not to Scale


- Specify packaging, product and option code

| Specifications |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part | Voltage Ratings |  | Vac Interrupting Ratings* (amps) |  | Vdc Interrupting Ratings (amps) |  | $\begin{gathered} \text { Typical } \\ \text { DC Cold } \\ \text { Resistance }(\Omega)^{* *} \end{gathered}$ | Typical Pre-Arc ${ }^{12 t} A C^{\dagger}$ | Typical Voltage Drop ( ${ }^{\ddagger}$ | Agency Approvals |  |  |
| Number | Vac | Vdc | 250 | 125 | 125 | 75 |  |  |  | UL | UR | CSA |
| ABC-1/4-R | 250 | 125 | 35 | 10,000 | 10,000 | - | 2.950 | 0.0020 | 0.35 | X |  | 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 | $\chi^{\ddagger}$ |
| ABC-30-R | 250 | 125 | 200 | 1000 | 400 | 1000 | 0.002225 | 1429 | 0.09 |  | X | $\chi^{\#}$ |

* Interrupting ratings measured at $70 \%-80 \%$ power factor on AC. The interrupting ratings for 18 A and 20 A 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.
$\dagger$ Typical melting l2t measured at listed interrupting rating and rated voltage.
$\ddagger$ Typical voltage drop measured at $25^{\circ} \mathrm{C} \pm 3^{\circ} \mathrm{C}$ ambient temperature at rated current
$\ddagger \ddagger$ 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 |
| $\mathbf{V}$ | Axial leads - copper tinned wire with nickel plated brass overcaps |

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Powerstor

