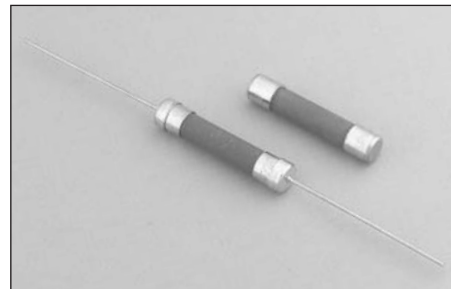


1/4" x 1 1/4" Fast-Acting Ceramic Tube Fuses

ABC Series

Description

- Fast-acting
- 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



| 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 1422-01 & 1422-03, File 53787.

Environmental Data

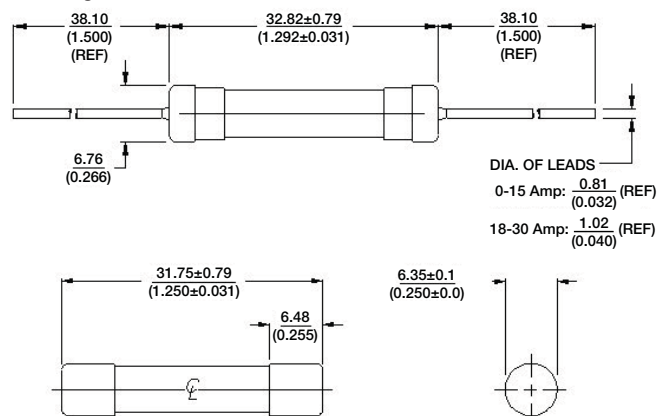
- Shock: 1/4-30A – MIL-STD-202, Method 213, Test Condition J
- Vibration: 1/4-30A – MIL-STD-202, Method 204, Test Condition C (Except 5g, 500HZ)

Ordering

- Specify packaging, product, and option code

Dimensions - mm (in)

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 ² t AC† | Typical Voltage Drop (mV)‡ | Agency Approvals | | |
|-------------|-----------------|-----|----------------------------------|--------|---------------------------------|------|----------------------------------|--------------------------------------|----------------------------|------------------|----|-----|
| | 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 | 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.

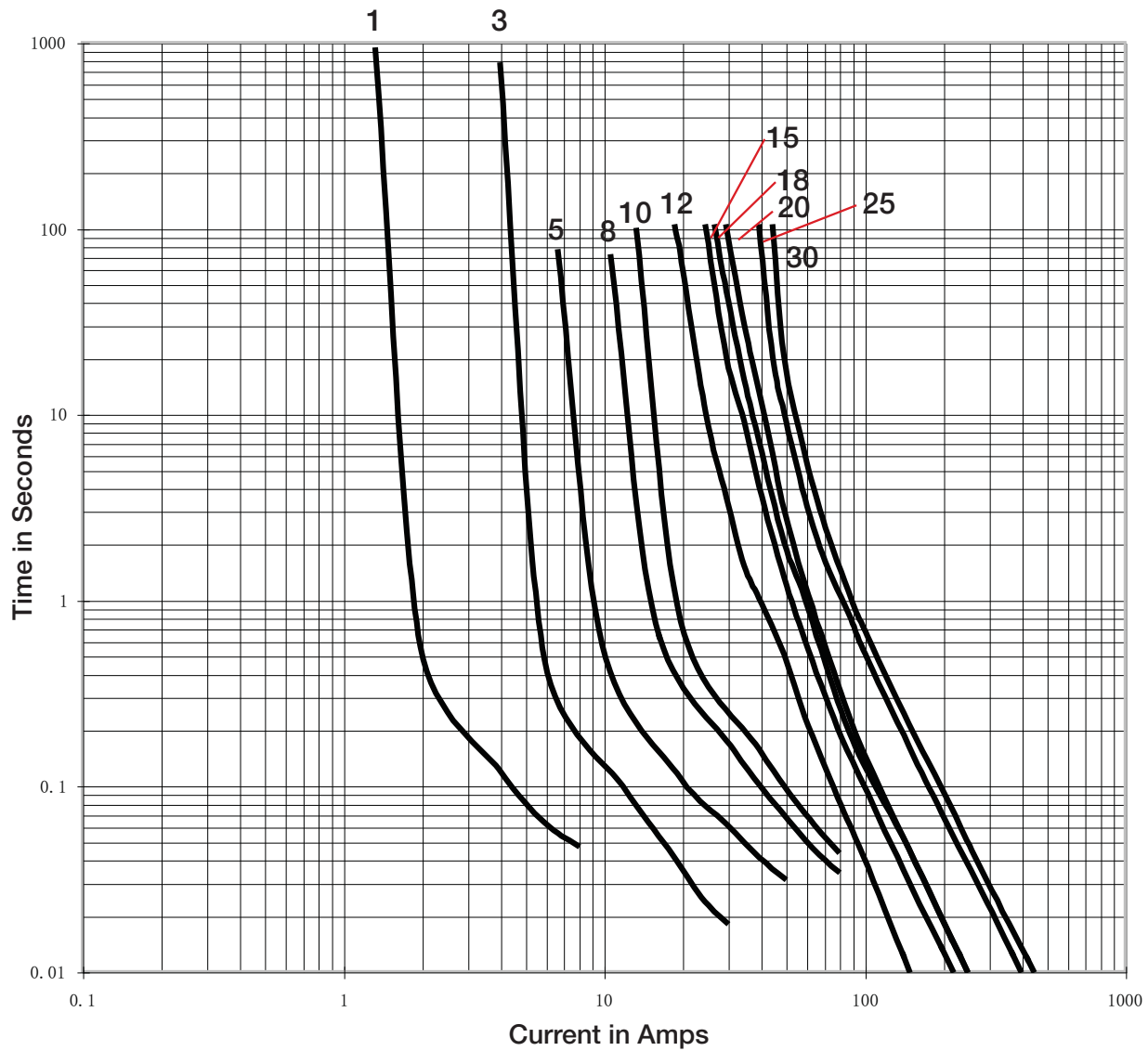
** Typical DC cold resistance measured at <10% of rated current.

† Typical melting I²t 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 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 |
| V | Axial leads - copper tinned wire with nickel plated brass overcaps |

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