

# ABC-1 Datasheet



|                              |                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------|
| DiGi Electronics Part Number | ABC-1-DG                                                                              |
| Manufacturer                 | <a href="#">Eaton - Electronics Division</a>                                          |
| Manufacturer Product Number  | ABC-1                                                                                 |
| Description                  | FUSE CERM 250VAC 125VDC 5 IN BOX                                                      |
| Detailed Description         | 1 A 250 V AC 125 V DC Fuse Cartridge, Ceramic Requires Holder 3AB, 3AG, 1/4" x 1-1/4" |

<https://www.DiGi-Electronics.com>

This model ABC-1 is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

ABC-1

Series:

ABC

Manufacturer:

Eaton - Electronics Division



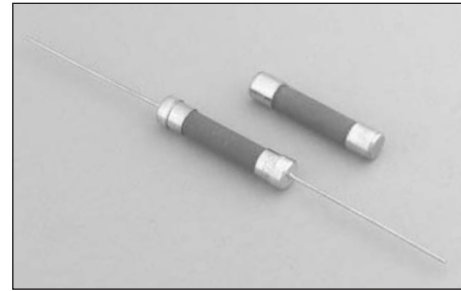
**COOPER** Electronic Technologies

**1/4" x 1-1/4" Fuses**  
**ABC Series, Fast Acting, Ceramic Tube**

**Description**

- Fast-acting, ceramic tube
- Optional leaded version available
- 1/4 x 1-1/4 (6.3mm x 32mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

| ELECTRICAL CHARACTERISTICS |                     |
|----------------------------|---------------------|
| % of Amp Rating            | Opening Time        |
| 110%                       | 4 Hours Minimum     |
| 135%                       | 60 Minutes maximum  |
| 200%                       | 120 Seconds Maximum |



**Approvals**

- UL Listed Guide & File numbers (ABC 1/4 - 15A): JDYX & E19180.
- UL Recognition Guide & File numbers (ABC 20 - 30A): JDYX2 & E19180.
- CSA Certification Record No: 053787 C 000 & Class No: 1422 01 & 1422 30.

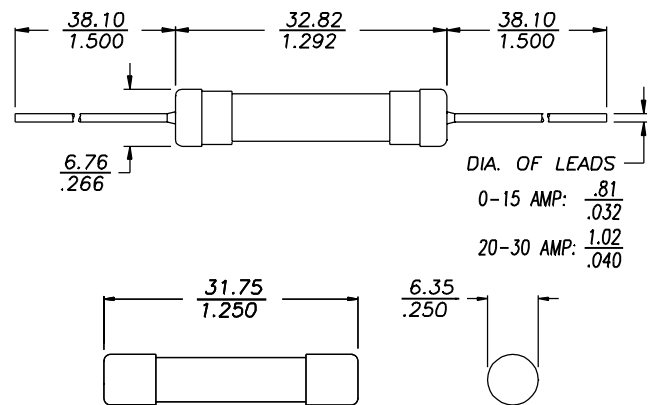
**Environmental Data**

- Shock: 1/4A and 1/2A – MIL-STD-202, Method 213, Test Condition I; 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)

**Ordering**

- Specify product code, option code and packaging code

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



| Product Code | Voltage Rating |      | AC Interrupting Rating |        | DC Interrupting Rating |       | Typical DC Cold Resistance** (ohms) | Typical Melting I <sup>2</sup> t† (AC) | Typical Voltage Drop‡ |
|--------------|----------------|------|------------------------|--------|------------------------|-------|-------------------------------------|----------------------------------------|-----------------------|
|              | AC             | DC   | 250V                   | 125V   | 125V                   | 75V   |                                     |                                        |                       |
| ABC-1/4      | 250V           | 125V | 35A                    | 10000A | 10000A                 | -     | 3.000                               | 0.02                                   | 3.25                  |
| ABC-1/2      | 250V           | 125V | 35A                    | 10000A | 10000A                 | -     | 0.788                               | 0.19                                   | 0.51                  |
| ABC-3/4      | 250V           | 125V | 35A                    | 10000A | 10000A                 | -     | 0.303                               | 0.8                                    | 0.42                  |
| ABC-1        | 250V           | 125V | 35A                    | 10000A | 10000A                 | -     | 0.197                               | 1.4                                    | 0.35                  |
| ABC-1-1/2    | 250V           | 125V | 100A                   | 10000A | 10000A                 | -     | 0.1175                              | 2.9                                    | 0.35                  |
| ABC-2        | 250V           | 125V | 100A                   | 10000A | 10000A                 | -     | 0.0755                              | 4.2                                    | 0.25                  |
| ABC-2-1/2    | 250V           | 125V | 100A                   | 10000A | 10000A                 | -     | 0.05875                             | 8.53                                   | 0.26                  |
| ABC-3        | 250V           | 125V | 100A                   | 10000A | 10000A                 | -     | 0.0435                              | 19.5                                   | 0.25                  |
| ABC-4        | 250V           | 125V | 200A                   | 10000A | 10000A                 | -     | 0.02975                             | 29.1                                   | 0.25                  |
| ABC-5        | 250V           | 125V | 200A                   | 10000A | 10000A                 | -     | 0.0286                              | 16.4                                   | 0.23                  |
| ABC-6        | 250V           | 125V | 200A                   | 10000A | 10000A                 | -     | 0.02315                             | 31.6                                   | 0.24                  |
| ABC-7        | 250V           | 125V | 200A                   | 10000A | 10000A                 | -     | 0.0183                              | 73.2                                   | 0.20                  |
| ABC-8        | 250V           | 125V | 200A                   | 10000A | 10000A                 | -     | 0.0146                              | 111.9                                  | 0.17                  |
| ABC-10       | 250V           | 125V | 200A                   | 10000A | 10000A                 | -     | 0.01205                             | 215.6                                  | 0.15                  |
| ABC-12       | 250V           | 125V | 750A                   | 10000A | 10000A                 | -     | 0.0068                              | 129.6                                  | 0.11                  |
| ABC-15       | 250V           | 125V | 750A                   | 10000A | 10000A                 | -     | 0.005425                            | 200.2                                  | 0.12                  |
| ABC-20       | 250V           | 125V | 400A                   | 1000A  | 10000A                 | -     | 0.00366                             | 550.8                                  | 0.13                  |
| ABC-25       | 125V           | 125V | -                      | 1000A  | 400A                   | 1000A | 0.00263                             | 839.3                                  | 0.12                  |
| ABC-30       | 125V           | 125V | -                      | 1000A  | 400A                   | 1000A | 0.002225                            | 1,429                                  | 0.14                  |

\*\* DC Cold Resistance (Measured at ≤10% of rated current)

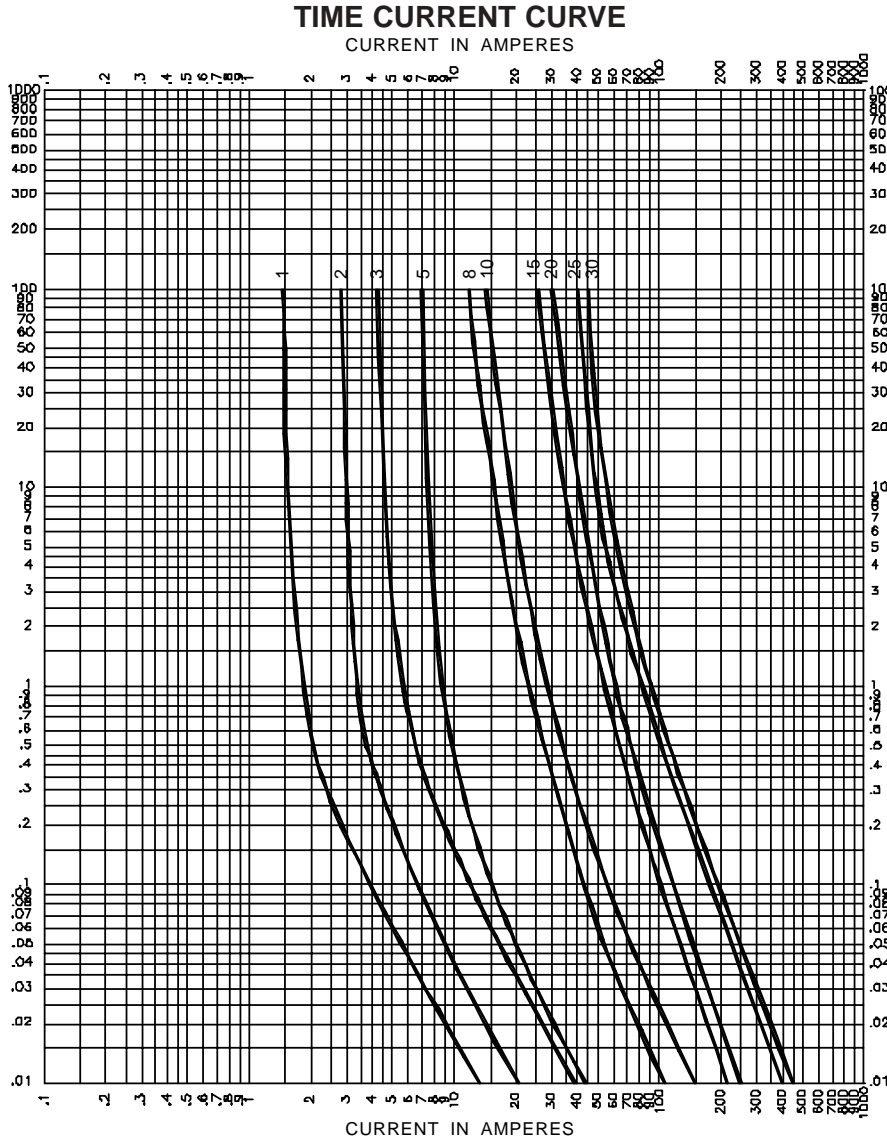
† Typical Melting I<sup>2</sup>t (A<sup>2</sup>Sec) (I<sup>2</sup>t was measured at listed interrupting rating and rated voltage. Measured at 70% to 80% power factor on AC)

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



**COOPER** Electronic Technologies

**1/4" x 1-1/4" Fuses**  
**ABC Series, Fast Acting, Ceramic Tube**



| <b>OPTION CODE</b> |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Option Code        | Description                                                                   |
| <b>B</b>           | Board Washable - Hermetically sealed to withstand aqueous cleaning            |
| <b>V</b>           | Axial leads - brass overcaps with copper and nickel flash, plated in tin lead |

| <b>PACKAGING CODE</b> |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Packaging Code        | Description                                                            |
| <b>BK</b>             | 100 pieces of fuses packed into a cardboard carton with flaps folded   |
| <b>BK1</b>            | 1,000 pieces of fuses packed into a cardboard carton with flaps folded |
| <b>BK8</b>            | 8,000 pieces of fuses packed into a cardboard carton with flaps folded |

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