

### Cooper Bussmann

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**FNQ-R-1**  
Class CC, Time Delay Fuse

#### Product Information

|                 |                  |
|-----------------|------------------|
| Product Type:   | Fuse             |
| Product Family: | Electrical Power |
| Brand:          | Cooper Bussmann  |
| Sub-brand:      | CC-Tron          |
| Class:          | CC               |

#### Recommended Products

|                               |                                |
|-------------------------------|--------------------------------|
| Rec. Fuse Block:              | <a href="#">BC603 Series</a>   |
| Rec. Panel-mount Fuse Holder: | <a href="#">HPS-RR</a>         |
| Rec. Modular Fuse Holder:     | <a href="#">CHCC Series</a>    |
| Rec. Disconnect Switch:       | <a href="#">CFD30CC Series</a> |
| Rec. Cover:                   | <a href="#">SAMI-7 Series</a>  |

#### Physical Properties

|             |                                   |
|-------------|-----------------------------------|
| Dimensions: | 1.5in.(L) × 0.406in.(W) × 0in.(H) |
|-------------|-----------------------------------|

#### Certifications

[UL Listed](#)  
[CSA Certified](#)

#### Electrical Properties

|                          |  |
|--------------------------|--|
| Maximum AC Voltage:      | 600  |
| Amperage Rating:         | 1  |
| AC Interrupting Ratings: | <ul style="list-style-type: none"> <li>200000 at 600V</li> </ul> |
| Fuse Class:              | Class CC   |
| Time Delay:              | Yes  |

# CC-TRON®

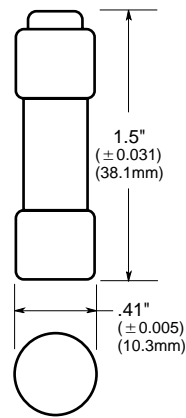
# FNQ-R

## Time-Delay Fuses

1 3/32" x 1 1/2", 600 Volt, 1/4 to 30 Amps



Dimensional Data



Catalog Symbol: FNQ-R

Time-Delay

Application: Circuit Transformer Protection

Ampere Rating: 1/4 to 30A

Voltage Rating: 600Vac (or less)†

Interrupting Rating: 200,000A RMS Sym. (UL)

Agency Information:

UL Listed, Std. 248-4, Class CC, Guide JDDZ, File E4273

CSA Certified, Class CC CSA, Class 1422-01,

File 53787-HRC-MISC

†12-30A is 300Vdc and 10k AIR.

General Information:

- The Bussmann CC-TRON® (FNQ-R) was designed to meet the needs of control circuit transformer protection.
- Current-limitation protects down stream components against damaging thermal and magnetic effects of short-circuit currents.
- **High inrush time-delay.** Control circuit transformers can experience inrush currents up to 85 times their full-load current rating. FNQ-R fuses can be sized according to NEC and UL requirements and still allow the high inrush currents, with significantly more time-delay than the UL minimum value of 12 seconds at 200% for Class CC fuses.
- Melamine tube. Nickel-plated brass endcaps.

Maximum Acceptable Rating of Overcurrent Device\*

| Rated Primary Current (Amperes) | Maximum Rating of Overcurrent Protective Device Expressed As A Percent of Transformer Primary Current Rating |
|---------------------------------|--|
| Less than 2A                    | 500**  |
| 2A to less than 9A              | 167  |
| 9A or more                      | 125  |

\*UL 508A Table 42.1.

\*\*300% for other than motor control applications.

CE

Electrical Ratings (Catalog Symbol and Amperes)

|             |              |              |              |
|-------------|--------------|--------------|--------------|
| FNQ-R-1/4   | FNQ-R-1 3/10 | FNQ-R-3 2/10 | FNQ-R-8      |
| FNQ-R-3/10  | FNQ-R-1 1/10 | FNQ-R-3 1/2  | FNQ-R-9      |
| FNQ-R-4/10  | FNQ-R-1 1/2  | FNQ-R-4      | FNQ-R-10     |
| FNQ-R-1/2   | FNQ-R-1 9/10 | FNQ-R-4 1/2  | FNQ-R-12     |
| FNQ-R-5/10  | FNQ-R-1 8/10 | FNQ-R-5      | FNQ-R-15     |
| FNQ-R-3/4   | FNQ-R-2      | FNQ-R-5 9/10 | FNQ-R-17 1/2 |
| FNQ-R-9/10  | FNQ-R-2 1/4  | FNQ-R-6      | FNQ-R-20     |
| FNQ-R-1     | FNQ-R-2 1/2  | FNQ-R-6 1/4  | FNQ-R-25     |
| FNQ-R-1 1/8 | FNQ-R-2 9/10 | FNQ-R-7      | FNQ-R-30     |
| FNQ-R-1 1/4 | FNQ-R-3      | FNQ-R-7 1/2  | —            |

Carton Quantity and Weight

| Ampere Ratings | Carton Qty. | Weight* |      |
|----------------|-------------|---------|------|
|                |             | Lbs.    | Kg.  |
| 1/4-30         | 10          | .200    | .091 |

\*Weight per carton