

#### Cooper Bussmann

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## FNQ-R-3

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)
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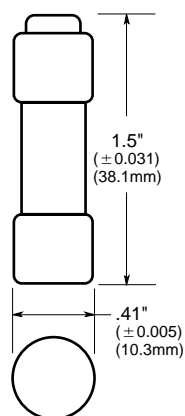
#### Certifications

[UL Listed](#)

[CSA Certified](#)

#### Electrical Properties

Maximum AC Voltage:	600
Amperage Rating:	3
AC Interrupting Ratings:	<ul style="list-style-type: none"> <li>200000 at 600V</li> </ul>
Fuse Class:	Class CC
Time Delay:	Yes

**CC-TRON®****Time-Delay Fuses****1 $\frac{3}{32}$ " × 1 $\frac{1}{2}$ ", 600 Volt,  $\frac{1}{4}$  to 30 Amps****FNQ-R****Dimensional Data****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.

Catalog Symbol: FNQ-R

Time-Delay

Application: Circuit Transformer Protection

Ampere Rating:  $\frac{1}{4}$  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.

**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- $\frac{1}{4}$	FNQ-R- $1\frac{3}{10}$	FNQ-R- $3\frac{7}{10}$	FNQ-R-8
FNQ-R- $\frac{3}{10}$	FNQ-R- $1\frac{1}{10}$	FNQ-R- $3\frac{1}{2}$	FNQ-R-9
FNQ-R- $\frac{4}{10}$	FNQ-R- $1\frac{1}{2}$	FNQ-R-4	FNQ-R-10
FNQ-R- $\frac{1}{2}$	FNQ-R- $1\frac{9}{10}$	FNQ-R- $4\frac{1}{2}$	FNQ-R-12
FNQ-R- $\frac{5}{10}$	FNQ-R- $1\frac{8}{10}$	FNQ-R-5	FNQ-R-15
FNQ-R- $\frac{3}{4}$	FNQ-R-2	FNQ-R- $5\frac{5}{10}$	FNQ-R- $17\frac{1}{2}$
FNQ-R- $\frac{8}{10}$	FNQ-R- $2\frac{1}{4}$	FNQ-R-6	FNQ-R-20
FNQ-R-1	FNQ-R- $2\frac{1}{2}$	FNQ-R- $6\frac{1}{4}$	FNQ-R-25
FNQ-R- $1\frac{1}{8}$	FNQ-R- $2\frac{9}{10}$	FNQ-R-7	FNQ-R-30
FNQ-R- $1\frac{1}{4}$	FNQ-R-3	FNQ-R- $7\frac{1}{2}$	—

**Carton Quantity and Weight**

Ampere Ratings	Carton Qty.	Weight*	
		Lbs.	Kg.
$\frac{1}{4}$ -30	10	.200	.091

\*Weight per carton