

# 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 CE logo denotes compliance with European Union Low Voltage Directive (50-1000Vac, 75-1500Vdc). Refer to Data Sheet: 8002 or contact Bussmann Application Engineering at 636-527-1270 for more information.

### Electrical Ratings (Catalog Symbol and Amperes)

FNQ-R-1/4	FNQ-R-1 3/10	FNQ-R-3 3/10	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 8/10	FNQ-R-17 1/2
FNQ-R-8/10	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

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## Time-Delay Fuses


13/32" x 1 1/2", 600 Volt, 1/4 to 30 Amps

Time-Current Characteristics—Average Melt



Time-Current Characteristics—Average Melt





Recommended fuseblocks/fuseholders for Class CC 600V fuses  
See Data Sheets listed below

- Open fuseblocks - 1105
- Finger-safe fuseholders - 1109, 1102, 1103, 1151
- Panel-mount fuseholders - 2114, 2113
- In-line fuseholders - 2126

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