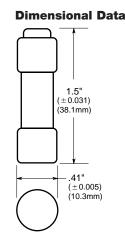
# CC-TRON® FNQ-R

## **Time-Delay Fuses**

## $^{13}\!/_{32}$ " × $1\frac{1}{2}$ ", 600 Volt, $\frac{1}{4}$ to 30 Amps





Catalog Symbol: FNQ-R

**Time-Delay** 

**Application:** Circuit Transformer Protection

Ampere Rating: 1/4 to 30 Amperes
Voltage Rating: 600 Volts AC (or less)†

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

**Agency Approvals:** 

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

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

File 53787-HRC-MISC

†12-30 amp is 300 Vdc and 10 KAIC.

**Electrical Ratings (Catalog Symbol and Amperes)** 

FNQ-R-1/4	FNQ-R-13/10	FNQ-R-3 <sup>2</sup> / <sub>10</sub>	FNQ-R-8
FNQ-R-3/10	FNQ-R-1 <sup>4</sup> / <sub>10</sub>	FNQ-R-31/2	FNQ-R-9
FNQ-R-1/10	FNQ-R-1½	FNQ-R-4	FNQ-R-10
FNQ-R-1/2	FNQ-R-1% <sub>10</sub>	FNQ-R-4½	FNQ-R-12
FNQ-R-% <sub>10</sub>	FNQ-R-1% <sub>10</sub>	FNQ-R-5	FNQ-R-15
FNQ-R-3/4	FNQ-R-2	FNQ-R-5% <sub>10</sub>	FNQ-R-171/2
FNQ-R-% <sub>10</sub>	FNQ-R-21/4	FNQ-R-6	FNQ-R-20
FNQ-R-1	FNQ-R-2½	FNQ-R-61/4	FNQ-R-25
FNQ-R-1%	FNQ-R-2% <sub>10</sub>	FNQ-R-7	FNQ-R-30
FNQ-R-11/4	FNQ-R-3	FNQ-R-7½	_

## **Carton Quantity and Weight**

Ampere	Carton	Weight*	ght*
Ratings	Qty.	Lbs.	Kg.
<u>1/4</u> -30	10	.200	.091

<sup>\*</sup>Weight per carton

#### **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 shortcircuit currents.
- Rejection feature. FNQ-R fuses meet the U.L. 508, paragraph 19.2.4 requirement that control circuit fuses used in equipment listed for use with more than 10,000 ampere available must have an adequate interrupting rating and must be rejection type.
- 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 U.L. requirements and still allow the high inrush currents, with significantly more time-delay than the U.L. 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	Maximum Rating of Overcurrent Protective Device Expressed As A Percent of Transformer Primary		
(Amperes)	Current Rating		
Less than 2A	500**		
2A to less than 9A	167		
9A or more	125		

<sup>\*</sup>U.L. 508, Table 19.3.

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

<sup>\*\*300%</sup> for other than motor control applications.

CC-TRON® FNQ-R

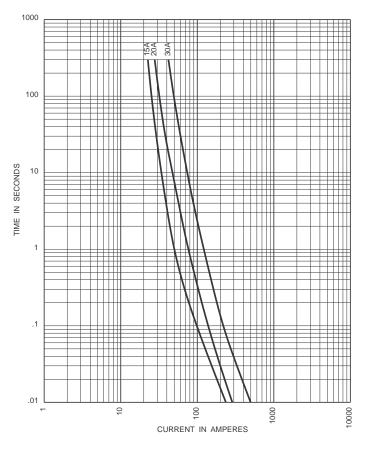
## **Time-Delay Fuses**

# <sup>13</sup>/<sub>32</sub>" × 1½", 600 Volt, ¼ to 30 Amps

## **Time-Current Characteristics-Total Clearing**

# **AMPERE RATING** 2 100 10 TIME IN SECONDS .1 .01 00 RMS SYMMETRICAL CURRENT IN AMPERES

## **Time-Current Characteristics-Average Melt**



## **Fuseblock Catalog Numbers**

Screw Terminal	Pressure Plate	Box Terminal	Screw Quick- Connect	Pressure Quick- Connect
BC6031S	BC6031P	BC6031B	BC6031SQ	BC6031PQ
BC6032S	BC6032P	BC6032B	BC6032SQ	BC6032PQ
BC6033S	BC6033P	BC6033B	BC6033SQ	BC6033PQ
	Terminal BC6031S BC6032S	Terminal         Plate           BC6031S         BC6031P           BC6032S         BC6032P	Terminal         Plate         Terminal           BC6031S         BC6031P         BC6031B           BC6032S         BC6032P         BC6032B	Screw Terminal         Pressure Plate         Box Terminal         Quick- Connect           BC6031S         BC6031P         BC6031B         BC6031SQ           BC6032S         BC6032P         BC6032B         BC6032SQ

#### See Also OPTIMA - Overcurrent Protection Modules

Catalog Number		BIF Document No.
OPM-SW	Fuse Switch with indication	1101
OPM-CC	Fuse Module with indication	1100

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