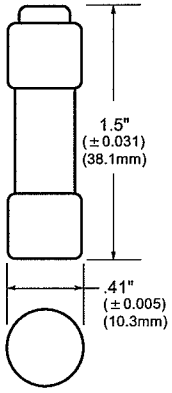
# CC-TRON®

# FNQ-R

## Time-Delay Fuses

## 13/32" x 1½", 600 Volt, ¼ to 30 Amps


**Dimensional Data**




**Catalog Symbol:** FNQ-R
**Time-Delay**
**Application:** Circuit Transformer Protection
**Ampere Rating:** ¼ 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-¼ | FNQ-R-1 3/10 | FNQ-R-3 3/10 | FNQ-R-8 |
| FNQ-R-3/10 | FNQ-R-1 4/10 | FNQ-R-3½ | FNQ-R-9 |
| FNQ-R-4/10 | FNQ-R-1½ | FNQ-R-4 | FNQ-R-10 |
| FNQ-R-½ | FNQ-R-1 6/10 | FNQ-R-4½ | FNQ-R-12 |
| FNQ-R-6/10 | FNQ-R-1 8/10 | FNQ-R-5 | FNQ-R-15 |
| FNQ-R-¾ | FNQ-R-2 | FNQ-R-5 6/10 | FNQ-R-17½ |
| FNQ-R-8/10 | FNQ-R-2¼ | FNQ-R-6 | FNQ-R-20 |
| FNQ-R-1 | FNQ-R-2½ | FNQ-R-6¼ | FNQ-R-25 |
| FNQ-R-1⅛ | FNQ-R-2 8/10 | FNQ-R-7 | FNQ-R-30 |
| FNQ-R-1¼ | FNQ-R-3 | FNQ-R-7½ | — |

**Carton Quantity and Weight**

| Ampere Ratings | Carton Qty. | Weight* Lbs. | Kg. |
|---|---|---|---|
| ¼-30 | 10 | .200 | .091 |

*Weight per carton

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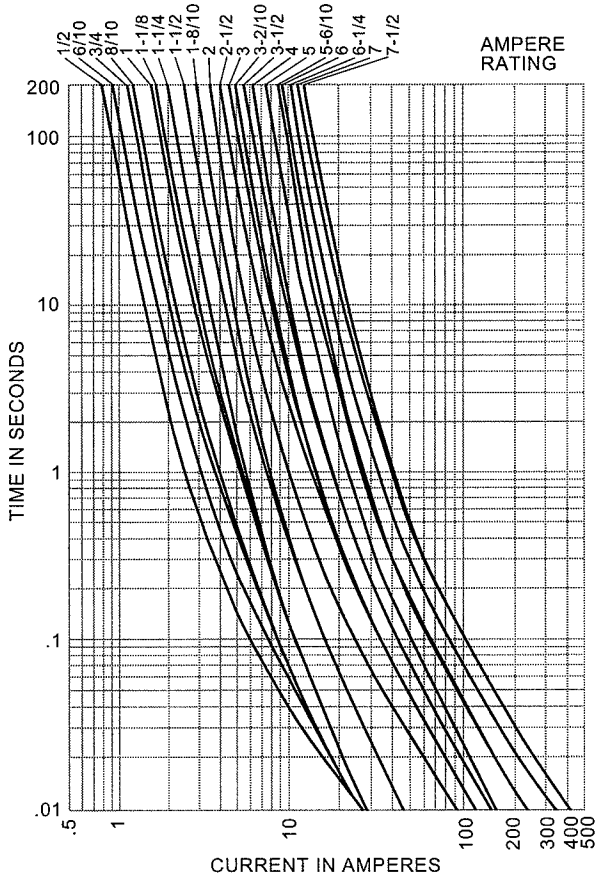
### Time-Current Characteristics–Average Melt

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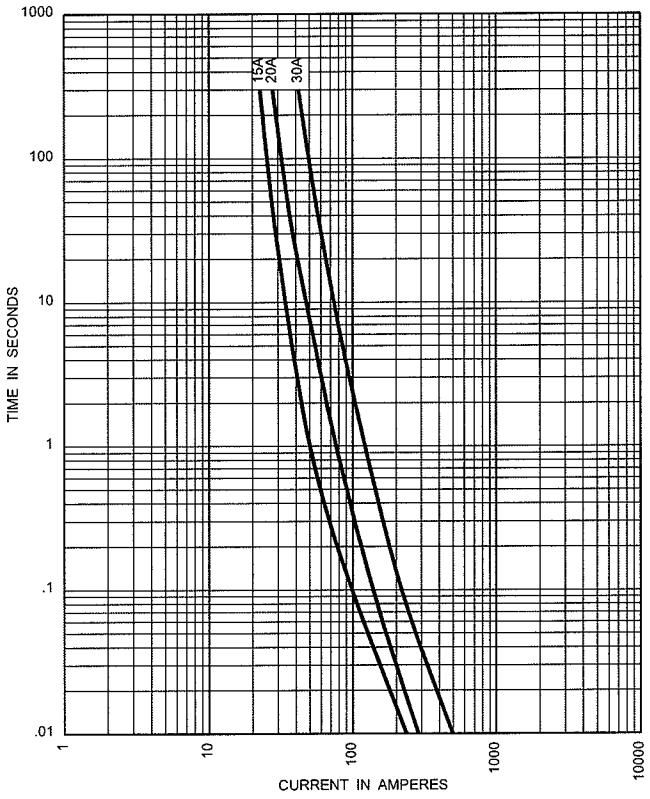


**Recommended fuseblocks/fuseholders for Class CC 600V fuses**

**See Data Sheets listed below**

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