# LIMITRON<sup>TM</sup> Class CC



### FNQ-R — 600Vac, 1/4-30A, Time-Delay Fuses



**Description:** Advanced protection Class CC current-limiting, time-delay fuses.

Catalog Symbol: FNQ-R-(amp)

Ratings:

Volts - 600Vac

- 300Vdc (15 & 20A)

Amps - 1/4-30A

IR - 200kA Vac RMS Sym.

- 20kA Vdc (15 & 20A)

#### **Agency Information:**

CE, UL Listed, Std. 248-4, Class CC, Guide JDDZ, File E4273 CSA Certified, Class CC CSA, Class 1422-01,

RoHS Compliant\*

\* FNQ-R-¼ not RoHS complaint.

File 53787-HRC-MISC

### Catalog Numbers (amps)

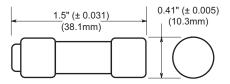
| FNQ-R-1/4  | FNQ-R-11/10 | FNQ-R-3%   | FNQ-R-8   |
|------------|-------------|------------|-----------|
| FNQ-R-3/10 | FNQ-R-11/10 | FNQ-R-3½   | FNQ-R-9   |
| FNQ-R-1/10 | FNQ-R-1½    | FNQ-R-4    | FNQ-R-10  |
| FNQ-R-1/2  | FNQ-R-1%    | FNQ-R-4½   | FNQ-R-12  |
| FNQ-R-%    | FNQ-R-1%    | FNQ-R-5    | FNQ-R-15  |
| FNQ-R-¾    | FNQ-R-2     | FNQ-R-5%   | FNQ-R-17½ |
| FNQ-R-%    | 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-21/10 | FNQ-R-7    | FNQ-R-30  |
| FNQ-R-11/4 | FNQ-R-3     | FNQ-R-7½   |           |

#### **Carton Quantity:**

| Amp Rating | Carton Qty. |  |
|------------|-------------|--|
| 1/4-30     | 10          |  |

| Maximum Acceptable Rating of Overcurrent Device† |  |  |  |  |
|--|--|--|--|--|
|  | Maximum Rating of Overcurrent            |  |  |  |
| Rated Primary                                    | Protective Device Expressed As a Percent |  |  |  |
| Current (Amps)                                   | of Transformer Primary Current Rating    |  |  |  |
| < 2A   | 500 <sup>††</sup>                        |  |  |  |
| 2A to 9A   | 167                                      |  |  |  |
| > 9A   | 125                                      |  |  |  |
| † UL 508A Table 42.1.                            |  |  |  |  |
| t+ 200% for other than                           | motor control applications               |  |  |  |

#### **Dimensions - in**



#### Features:

- Provides 10X better current limitation to help prevent equipment damage caused by short-circuit events.
- 200kA interrupting rating complies with NEC® Section 110.9 for today's large capacity systems.
- Fast-acting fuse helps prevent equipment damage caused by short-circuit events.
- Rejection type fuse fits both standard and rejection-style holders.
- The Class CC FNQ-R Limitron fuse meets the needs of control circuit transformer protection.
- FNQ-R fuses can be sized according to NEC<sup>®</sup> 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.
- Ideal for critical industrial or commercial applications that have specific current limitation requirements.

#### **Applications:**

- Branch Circuits
- Line Protection
- Small Control Transformers
- Industrial Control

#### **Recommended Fuse Blocks and Holders**

| Fuse Amps           | 1-Pole  | 2-Pole  | 3-Pole      |  |  |
|---------------------|---------|---------|-------------|--|--|
| Open Blocks         |         |         |             |  |  |
| 0-30                | BC6031_ | BC6032_ | BC6033_     |  |  |
| DIN-Rail Holders    |         |         |             |  |  |
| 0-30 -              | CHCC1D_ | CHCC2D_ | CHCC3D_     |  |  |
|                     | _       | _       | OPM-NG      |  |  |
|                     | _       | _       | OPM-1038_   |  |  |
|                     | _       | _       | OPM-1038_SW |  |  |
| Panel Mount Holders |         |         |             |  |  |
| 0-30                | HPS     | _       | _           |  |  |
|                     | HPF     | _       | _           |  |  |
| In-Line Holders     |         |         |             |  |  |
| 0-30                | _       | HEY     | _           |  |  |
|                     | HEZ     | _       | _           |  |  |

For additional information on Class CC fuse blocks and holders, see Data Sheets:

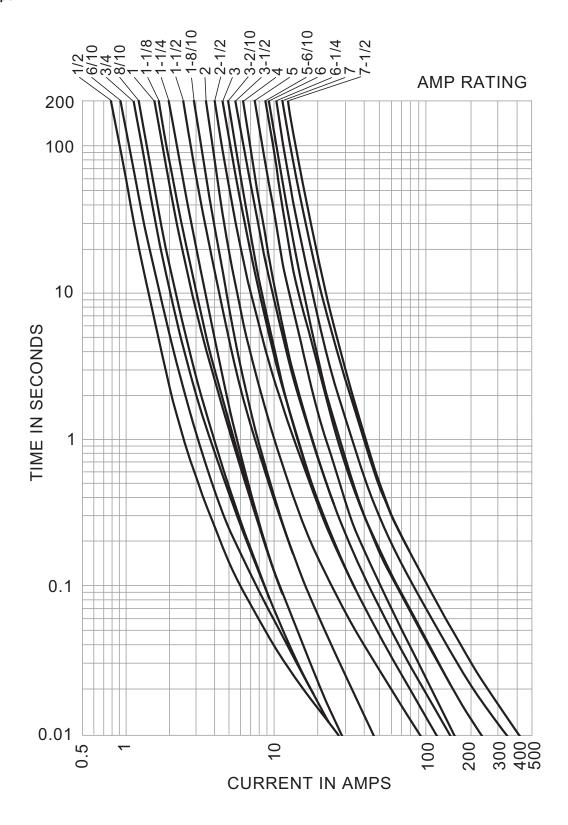
- Open Blocks # 1105 (BC Series)
- DIN-Rail Holders # 3185 (CHCC), # 1109 (OPM), # 1102 (OPM-1038), 1103 (OPM-1038\_SW),
- Panel Mount Holders # 2113 (HPS), # 2114 (HPF)
- In-Line Holders # 2126 (HEY), # 2130 (HEZ)

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# FNQ-R - 600Vac, 1/4-30A, Time-Delay Fuses

Time-Current Curves - Average Melt ½ to 7½ Amps

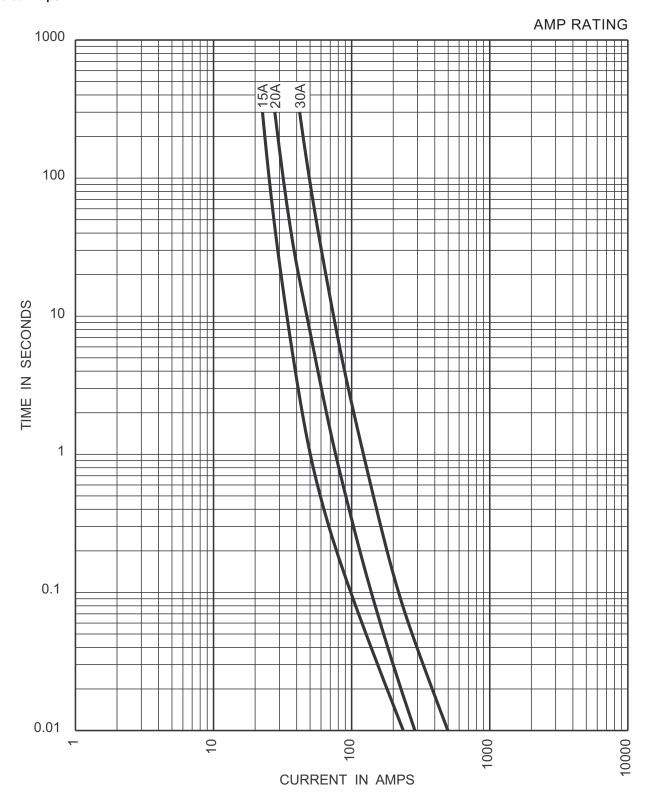


# LIMITRON<sup>TM</sup> Class CC



# FNQ-R - 600Vac, 1/4-30A, Time-Delay Fuses

Time-Current Curves - Average Melt 15 to 30 Amps

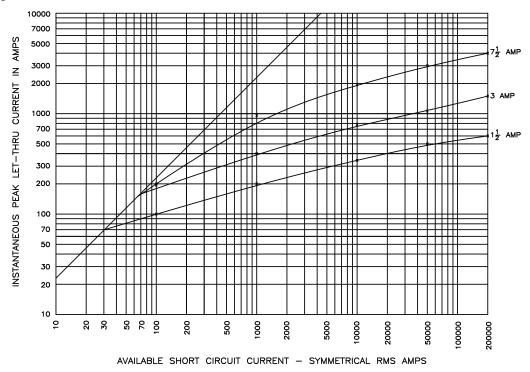




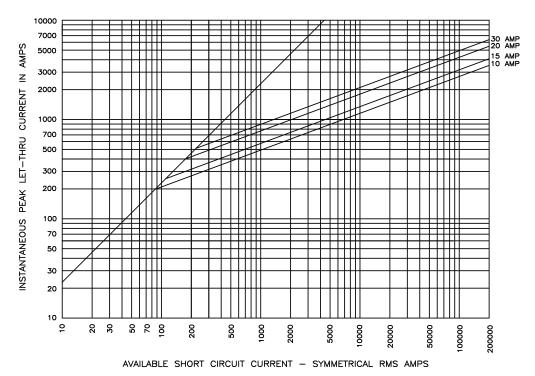
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#### **Current-Limitation Curves**

1-1/2 to 7-1/2 Amps



10 to 30 Amps



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