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# DFJ Class J high speed fuses



### Agency information

- UL® Listed Standard 248-8, Class J, Guide JDDZ, File E4273
- CSA® Certified, C22.2 No. 248.8, Class 1422-02, File 53787
- RoHS compliant
- CE

### Features:

- Easily coordinated with existing and new variable speed drives and electric controllers.
- Standard Class J dimensions allow using readily available fuse blocks, holders and switches.
- Has the lowest let-through energy of any branch circuit overcurrent protective device.

### Typical applications

- Protection of AC and DC drives
- Equipment using power semiconductor devices

### Catalog symbol:

- DFJ-

### Description:

The Bussmann™ series DFJ drive fuse is a high speed, current-limiting fuse that provides maximum protection for AC and DC drives and controllers and meet NEC® branch circuit protection requirements. The drive fuse has the lowest I<sup>2</sup>t of any branch circuit fuse to protect power semiconductor devices that utilize diodes, GTOs, SCRs and SSRs.

### Specifications:

#### Ratings

- Volts
  - 600Vac (or less)
  - 450Vdc (or less, 15-600A)
- Amps 1-600A
- IR
  - 200kA RMS Sym.
  - 100kA DC

### Catalog numbers (amps):

|        |          |         |         |
|--------|----------|---------|---------|
| DFJ-1  | DFJ-15   | DFJ-60  | DFJ-200 |
| DFJ-2  | DFJ-17.5 | DFJ-70  | DFJ-225 |
| DFJ-3  | DFJ-20   | DFJ-80  | DFJ-250 |
| DFJ-4  | DFJ-25   | DFJ-90  | DFJ-300 |
| DFJ-5  | DFJ-30   | DFJ-100 | DFJ-350 |
| DFJ-6  | DFJ-35   | DFJ-110 | DFJ-400 |
| DFJ-8  | DFJ-40   | DFJ-125 | DFJ-450 |
| DFJ-10 | DFJ-45   | DFJ-150 | DFJ-500 |
| DFJ-12 | DFJ-50   | DFJ-175 | DFJ-600 |

### Carton quantity:

| Amp rating | Carton qty. |
|------------|-------------|
| 1-60       | 10          |
| 70-200     | 5           |
| 225-600    | 1           |



Powering Business Worldwide

**Electrical characteristics:**

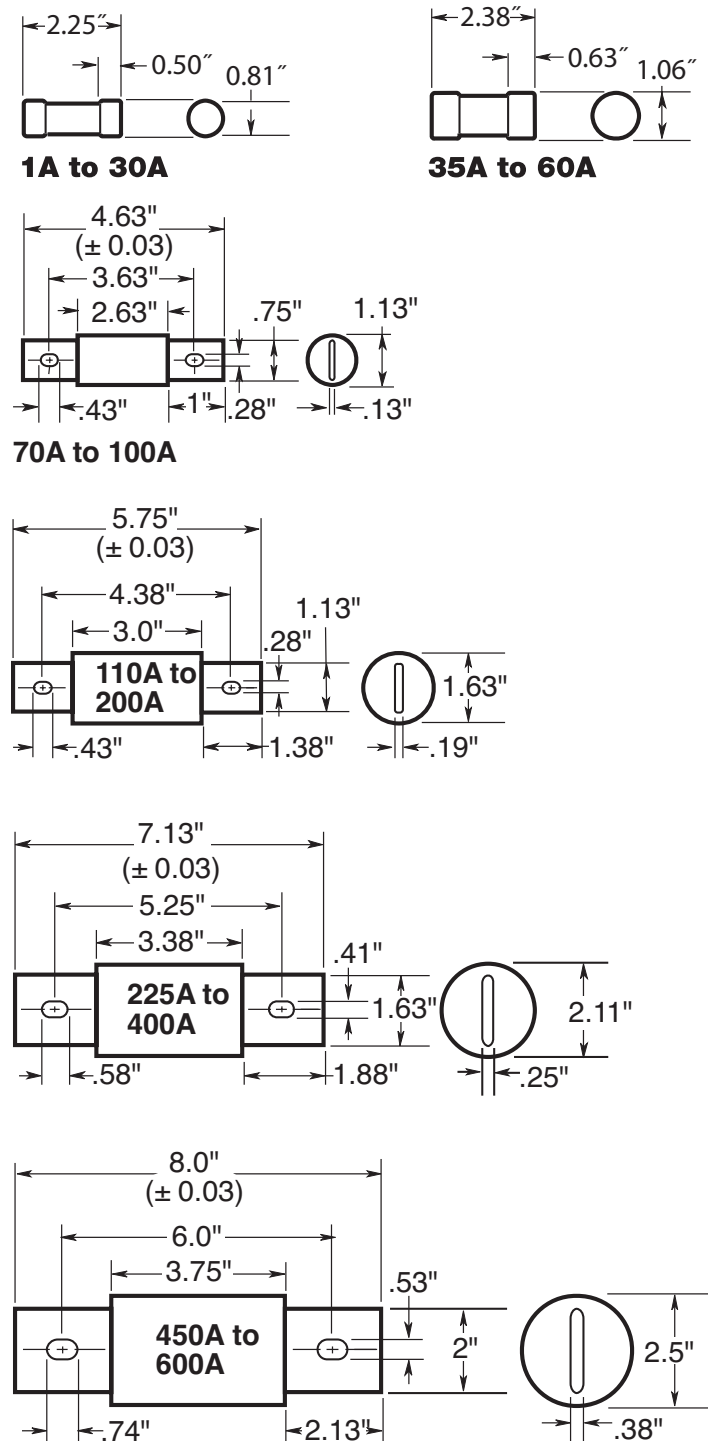
| Catalog number | Amps | I <sup>2</sup> t (A <sup>2</sup> Sec) @ 600Vac/100kA |          | Watts loss |
|----------------|------|--|----------|------------|
|                |      | Pre-arc  | Clearing |            |
| DFJ-15         | 15   | 4  | 110      | 4.1        |
| DFJ-20         | 20   | 8  | 365      | 4.0        |
| DFJ-25         | 25   | 12   | 610      | 4.9        |
| DFJ-30         | 30   | 20   | 1000     | 5.5        |
| DFJ-35         | 35   | 55   | 1100     | 6.8        |
| DFJ-40         | 40   | 90   | 1900     | 8.6        |
| DFJ-50         | 50   | 140  | 2800     | 8.7        |
| DFJ-60         | 60   | 290  | 6000     | 8.5        |
| DFJ-70         | 70   | 450  | 3100     | 12         |
| DFJ-80         | 80   | 650  | 4600     | 13         |
| DFJ-90         | 90   | 1010   | 7200     | 13         |
| DFJ-100        | 100  | 1460   | 10,500   | 13         |
| DFJ-110        | 110  | 1710   | 9500     | 17         |
| DFJ-125        | 125  | 3580   | 20,000   | 15         |
| DFJ-150        | 150  | 5080   | 28,000   | 19         |
| DFJ-175        | 175  | 6310   | 35,000   | 23         |
| DFJ-200        | 200  | 9850   | 54,500   | 24         |
| DFJ-225        | 225  | 11,420   | 51,000   | 29         |
| DFJ-250        | 250  | 17,000   | 74,500   | 30         |
| DFJ-300        | 300  | 23,500   | 103,000  | 36         |
| DFJ-350        | 350  | 38,800   | 170,000  | 39         |
| DFJ-400        | 400  | 62,200   | 272,000  | 40         |
| DFJ-450        | 450  | 44,600   | 270,000  | 56         |
| DFJ-500        | 500  | 79,500   | 480,000  | 52         |
| DFJ-600        | 600  | 138,000  | 830,000  | 57         |

**Recommended fuse blocks and holders:**

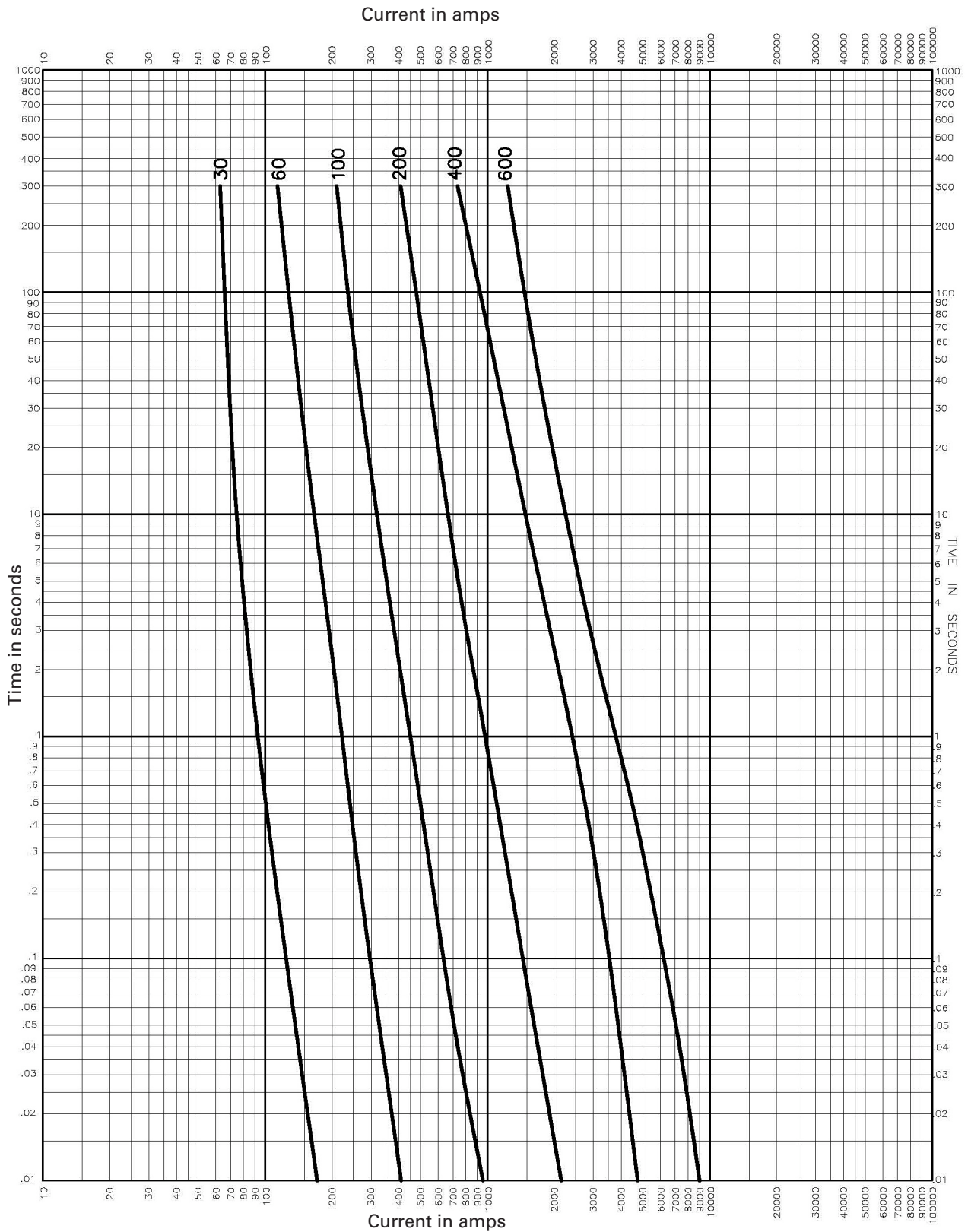
| Fuse amps   | 1-Pole         | 2-Pole         | 3-Pole         |
|---|----------------|----------------|----------------|
| <b>"Pyramid" blocks (data sheet No. 1108)</b>                   |                |                |                |
| up to 30  | —              | —              | JP60030-3_     |
| <b>CH holders (data sheet No. 2144)</b>                         |                |                |                |
| up to 30  | CH30J1_        | CH30J2_        | CH30J3_        |
| 35-60   | CH60J1_        | CH60J2_        | CH60J3_        |
| <b>Safety J™ holders (data sheet No. 1152)</b>                  |                |                |                |
| up to 30  | JT60030_       | —              | —              |
| 35-60   | JT60060_       | —              | —              |
| <b>JM modular fuse blocks (data sheet No. 3192 and 10289)</b>   |                |                |                |
| up to 30  | JM60030-1_     | JM60030-2_     | JM60030-2_     |
| 35-60   | JM60060-1CR    | JM60060-2CR    | JM60060-3CR    |
| 70-100  | JM60100-1CR    | JM60100-2CR    | JM60100-3CR    |
| 110-200   | JM60200-1CR    | JM60200-2CR    | JM60200-3CR    |
| 225-400   | JM60400-1CR    | JM60400-2CR    | JM60400-3CR    |
| 450-600   | JM60600-1CR    | JM60600-2CR    | JM60100-3CR    |
| <b>JM power distribution fuse blocks (data sheet No. 10192)</b> |                |                |                |
| up to 30  | JM60030-1MW_   | JM60030-2MW_   | JM60030-3MW_   |
| 35-60   | JM60060-1MW_   | JM60060-2MW_   | JM60060-3MW_   |
| 70-100  | JM60100-1MW14  | JM60100-2MW14  | JM60100-3MW14  |
| 110-200   | JM60200-1MW16  | JM60200-2MW16  | JM60200-3MW16  |
| 225-400   | JM60400-1MW16  | JM60400-2MW16  | JM60400-3MW16  |
|   | JM60400-1MW26* | JM60400-2MW26* | JM60400-3MW26* |

\* Lineside dual box lug terminal.

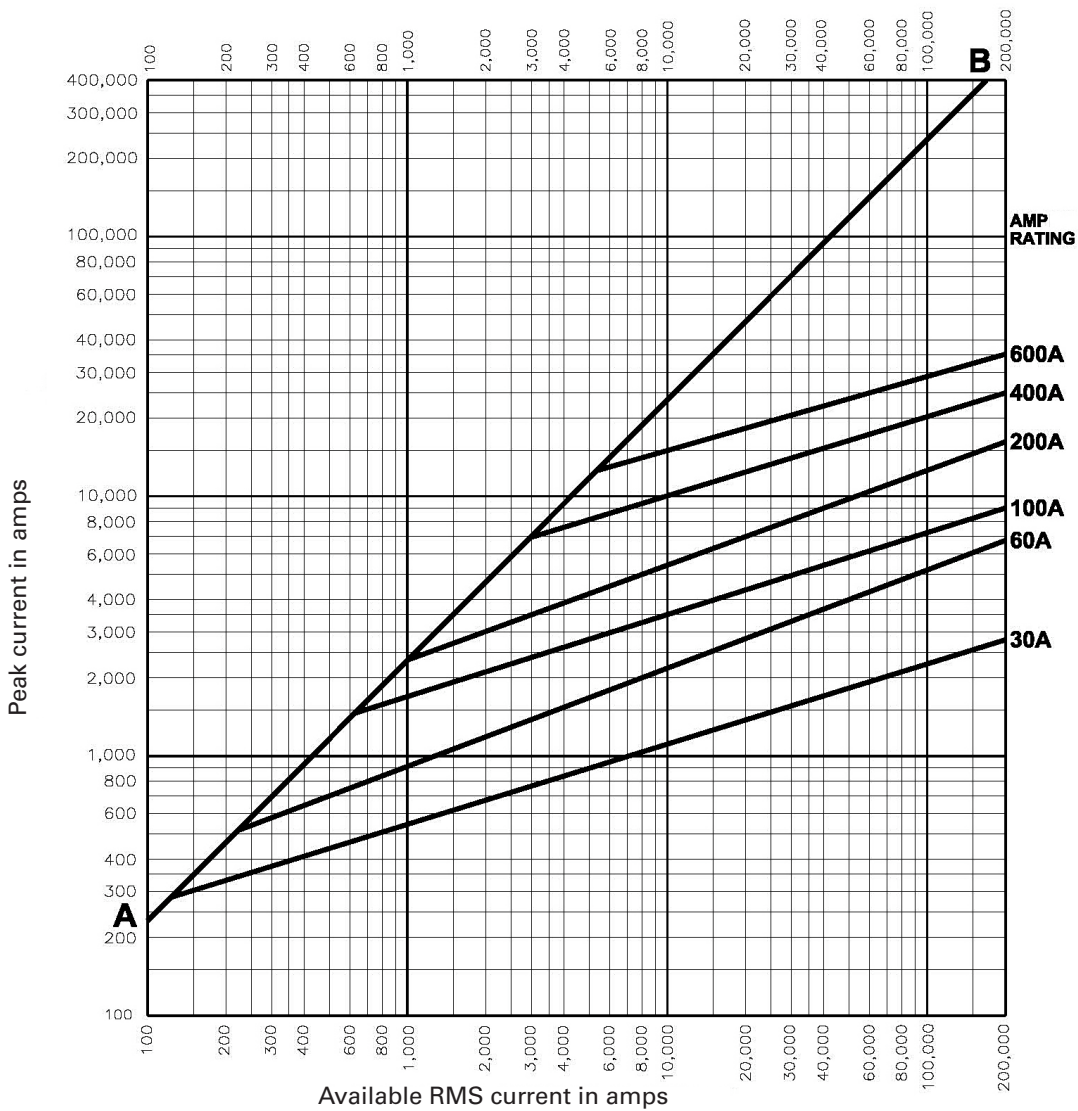
**Dimensions - in:**



Time-current curves — average melt



**Current-limitation curves**



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