

## DFJ — UL Class J full range high speed fuse

600 Vac/450 Vdc (UL), 1 to 600 A

UL Class J high speed, full range current-limiting fuses provide maximum protection for AC and DC drives and controllers. The UL Class J Bussmann series DFJ fuse has the lowest  $I^2t$  of any branch circuit fuse to protect power semiconductor devices that utilize diodes, GTOs, SCRs and SSRs. The DFJ fuse combines the performance of high speed fuses in a full range Class J branch circuit package, allowing the use of readily available Class J fuse blocks, holders and switches. The DFJ uses standard Class J holders and blocks. See section 8 for available catalog numbers.

### Ratings

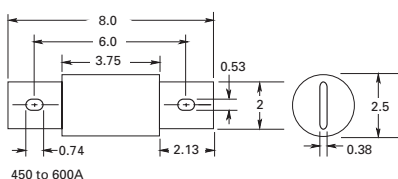
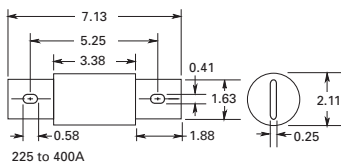
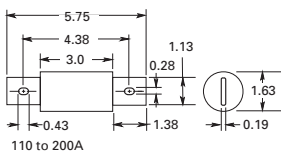
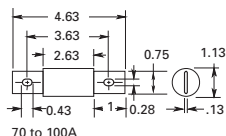
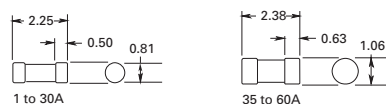
- Volts
  - 600 Vac (UL)
  - 450 Vdc (UL 15-600 A)
- Amps 1-600 A
- IR
  - 200 kA RMS Sym.
  - 100 kA DC

### Operating class gR

### Agency information

- UL Listed, Std 248-8, Class J, Guide JDDZ, File E4273
- CSA Certified, C22-2 No 248.8, Class 1422-02, File 53787
- CE

### Dimensions — in



| Catalog no. | Amps | $I^2t$ (A <sup>2</sup> Sec) @ 600 Vac/100 kA |          |             |
|-------------|------|----------------------------------------------|----------|-------------|
|             |      | Pre-arc                                      | Clearing | Watts loss* |
| DFJ-1       | 1    | —                                            | —        | —           |
| DFJ-2       | 2    | —                                            | —        | —           |
| DFJ-3       | 3    | —                                            | —        | —           |
| DFJ-4       | 4    | —                                            | —        | —           |
| DFJ-5       | 5    | —                                            | —        | —           |
| DFJ-6       | 6    | —                                            | —        | —           |
| DFJ-8       | 8    | —                                            | —        | —           |
| DFJ-10      | 10   | —                                            | —        | —           |
| DFJ-12      | 12   | —                                            | —        | —           |
| DFJ-15      | 15   | 4                                            | 110      | 4.1         |
| DFJ-17.5    | 17.5 | —                                            | —        | —           |
| 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          |

\* Watts loss at rated current.

Data sheet no. 1048