



# FWJ 1000V 35-2000A

| Electrical Characteristics |                           |              |                      |               | Ordering Information |                |                           | Dimensions       | Curves   |      |
|----------------------------|---------------------------|--------------|----------------------|---------------|----------------------|----------------|---------------------------|------------------|----------|------|
| Type                       | Rated Current<br>RMS-Amps | I²t (A² Sec) |                      | Watts<br>Loss | Part<br>Number       | Carton<br>Qty. | Carton<br>Weight<br>(lbs) | Figure<br>Number | BIF #    |      |
|                            |                           | Pre-arc      | Clearing<br>at 1000V |               |                      |                |                           |                  |          |      |
| FWJ<br>1000V               | 35                        | 210          | 2000                 | 7             | FWJ-35A              | 10             | 4.18                      | Fig. 1           | 35785303 |      |
|                            | 40                        | 300          | 2500                 | 8             | FWJ-40A              |                |                           |                  |          |      |
|                            | 50                        | 470          | 3500                 | 10            | FWJ-50A              |                |                           |                  |          |      |
|                            | 60                        | 670          | 5000                 | 11            | FWJ-60A              |                |                           |                  |          |      |
|                            | 70                        | 1100         | 6900                 | 12            | FWJ-70A              |                |                           |                  |          |      |
|                            | 80                        | 1550         | 9700                 | 13            | FWJ-80A              |                |                           |                  |          |      |
|                            | 90                        | 1900         | 12000                | 14            | FWJ-90A              |                |                           |                  |          |      |
|                            | 100                       | 2800         | 17500                | 15            | FWJ-100A             |                |                           |                  |          |      |
|                            | 125                       | 4800         | 35000                | 16            | FWJ-125A             | 1              | 4.40                      |                  |          |      |
|                            | 150                       | 6300         | 45000                | 25            | FWJ-150A             |                |                           |                  |          |      |
|                            | 175                       | 7500         | 65000                | 30            | FWJ-175A             |                |                           |                  |          |      |
|                            | 200                       | 11700        | 80000                | 32            | FWJ-200A             |                |                           |                  |          |      |
|                            | 250                       | 16000        | 112000               | 50            | FWJ-250A             |                |                           |                  |          | 4.84 |
|                            | 300                       | 23500        | 164000               | 56            | FWJ-300A             |                |                           |                  |          |      |
|                            | 350                       | 33000        | 231000               | 62            | FWJ-350A             |                |                           |                  |          |      |
|                            | 400                       | 47000        | 330000               | 67            | FWJ-400A             |                |                           |                  |          |      |
|                            | 500                       | 39500        | 329000               | 95            | FWJ-500A             |                |                           |                  |          |      |
|                            | 600                       | 61000        | 520000               | 105           | FWJ-600A             |                | 5.28                      |                  |          |      |
|                            | 800                       | 87000        | 500000               | 182           | FWJ-800A             |                |                           |                  |          |      |
|                            | 1000                      | 190000       | 1100000              | 206           | FWJ-1000A            |                |                           |                  |          |      |
|                            | 1200                      | 370000       | 2100000              | 240           | FWJ-1200A            |                |                           |                  |          |      |
|                            | 1400                      | 470000       | 2700000              | 248           | FWJ-1400A            |                |                           |                  |          |      |
|                            | 1600                      | 700000       | 4000000              | 267           | FWJ-1600A            |                |                           |                  |          |      |
|                            | 1800                      | 925000       | 5300000              | 239           | FWJ-1800A            |                |                           |                  |          |      |
|                            | 2000                      | 1330000      | 7600000              | 244           | FWJ-2000A            |                |                           |                  |          |      |

†U.L. Recognition on 35 through 600 amperes only.

1 kg = 2.2 lbs 1 lb = 0.45 kg

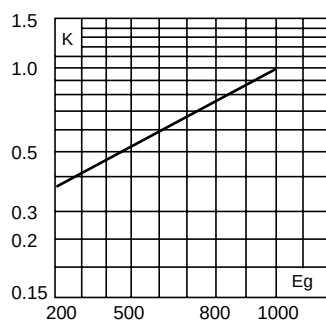
- Interrupting rating 25kA for 35 through 200 amperes.
- Interrupting rating 100kA for 250 through 2000 amperes.
- Watts loss provided at rated current.
- (800 Vdc/Interrupting rating 50kA) U.L. Recognition on 35-200 and 450-600 amperes.

# FWJ 1000V 35-2000A

## Electrical Characteristics

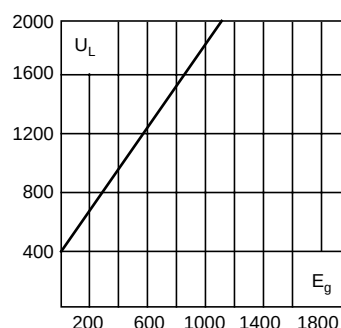
### Total Clearing $I^2t$

The total clearing  $I^2t$  at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing  $I^2t$  is found by multiplying by correction factor, K, given as a function of applied working voltage,  $E_g$ , (RMS).



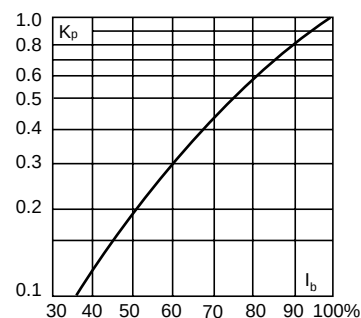
### Arc Voltage

This curve gives the peak arc voltage,  $U_L$ , which may appear across the fuse during its operation as a function of the applied working voltage,  $E_g$ , (RMS) at a power factor of 15%.



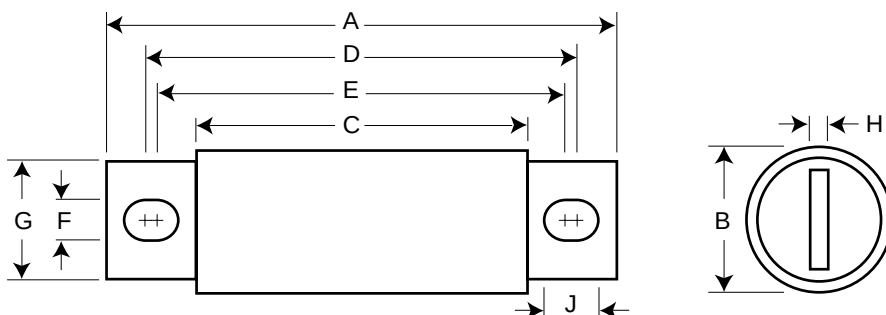
### Power Losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor,  $K_p$ , is given as a function of the RMS load current,  $I_b$ , in % of the rated current.



## Dimensions

Fig. 1: 35-2000 Amp Range



| Order #        | Fig. | A     | B     | C     | D     | E     | F     | G     | H     | J     |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FWJ-35A-60A    | 1    | 5.000 | 0.940 | 3.110 | 4.235 | 4.180 | 0.352 | 0.750 | 0.125 | 0.380 |
| FWJ-70A-100A   | 1    | 4.932 | 1.125 | 3.085 | 4.266 | 4.156 | 0.352 | 1.000 | 0.188 | 0.407 |
| FWJ-125A-200A  | 1    | 5.685 | 1.526 | 3.261 | 4.803 | 4.055 | 0.445 | 1.000 | 0.250 | 0.819 |
| FWJ-250A-400A  | 1    | 5.768 | 2.000 | 3.500 | 4.811 | 4.150 | 0.433 | 1.500 | 0.250 | 0.764 |
| FWJ-500A-600A  | 1    | 7.201 | 2.500 | 3.465 | 5.984 | 4.706 | 0.562 | 2.000 | 0.375 | 1.201 |
| FWJ-800A-2000A | 1    | 6.811 | 3.500 | 3.312 | 5.472 | 4.962 | 0.625 | 2.750 | 0.500 | 0.880 |

Dimension in inches.  
1mm = 0.0394" 1" = 25.4mm

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