



British Style BS 88

**690V 6-700A**

| Type  | Rated Current RMS-Amps | Electrical Characteristics          |                  |                  |            | Ordering Information |             |                    | Dimensions    | Curves   |
|-------|------------------------|-------------------------------------|------------------|------------------|------------|----------------------|-------------|--------------------|---------------|----------|
|       |                        | I <sup>2</sup> t (A <sup>2</sup> S) |                  |                  |            | Part Number          | Carton Qty. | Carton Weight (kg) | Figure Number | BIF #    |
|       |                        | Pre-arc                             | Clearing at 415V | Clearing at 660V | Watts Loss |                      |             |                    |               |          |
| CT    | 6                      | 1.8                                 | 8.5              | 12               | 2          | 6CT                  | 20          | 0.160              | Fig. 1        |          |
|       | 10                     | 7                                   | 30               | 48               | 3          | 10CT                 |             |                    |               |          |
|       | 12                     | 10                                  | 40               | 65               | 3          | 12CT                 |             |                    |               |          |
|       | 16                     | 16                                  | 66               | 110              | 7          | 16CT                 |             |                    |               |          |
|       | 20                     | 32                                  | 150              | 220              | 7          | 20CT                 |             |                    |               |          |
| ET    | 25                     | 25                                  | 150              | 250              | 7          | 25ET                 | 10          | 0.420              | Fig. 2        | 35785312 |
|       | 32                     | 32                                  | 190              | 350              | 11         | 32ET                 |             |                    |               |          |
|       | 35                     | 52                                  | 310              | 500              | 11         | 35ET                 |             |                    |               |          |
|       | 40                     | 103                                 | 600              | 900              | 9          | 40ET                 |             |                    |               |          |
|       | 45                     | 103                                 | 680              | 1100             | 11         | 45ET                 |             |                    |               |          |
|       | 56                     | 135                                 | 950              | 1500             | 14         | 56ET                 |             |                    |               |          |
|       | 63                     | 171                                 | 1200             | 2000             | 16         | 63ET                 |             |                    |               |          |
|       | 80                     | 360                                 | 2500             | 4000             | 18         | 80ET                 |             |                    |               |          |
| FE    | 35                     | 33                                  | 130              | 200              | 9          | 35FE                 | 10          | 0.420              | Fig. 2        | 35785314 |
|       | 40                     | 52                                  | 180              | 300              | 9          | 40FE                 |             |                    |               |          |
|       | 45                     | 76                                  | 270              | 450              | 11         | 45FE                 |             |                    |               |          |
|       | 50                     | 103                                 | 380              | 600              | 11         | 50FE                 |             |                    |               |          |
|       | 63                     | 135                                 | 480              | 750              | 12         | 63FE                 |             |                    |               |          |
|       | 71                     | 210                                 | 600              | 950              | 17         | 71FE                 |             |                    |               |          |
|       | 80                     | 250                                 | 900              | 1500             | 20         | 80FE                 |             |                    |               |          |
|       | 90                     | 360                                 | 1300             | 2100             | 20         | 90FE                 |             |                    |               |          |
|       | 100                    | 470                                 | 1800             | 2800             | 23         | 100FE                |             |                    |               |          |
|       | EET                    | 90                                  | 490              | 3000             | 4500       | 19                   |             |                    |               |          |
| 110   |                        | 600                                 | 4000             | 6500             | 27         | 110EET               |             |                    |               |          |
| 140   |                        | 1050                                | 7000             | 12000            | 35         | 140EET               |             |                    |               |          |
| 160   |                        | 1500                                | 10000            | 17000            | 39         | 160EET               |             |                    |               |          |
| FEE   | 100                    | 400                                 | 1600             | 2400             | 24         | 100FEE               | 5           | 0.450              | Fig. 3        | 35785292 |
|       | 120                    | 540                                 | 1900             | 3100             | 32         | 120FEE               |             |                    |               |          |
|       | 140                    | 850                                 | 2500             | 3800             | 36         | 140FEE               |             |                    |               |          |
|       | 160                    | 1000                                | 3700             | 5700             | 46         | 160FEE               |             |                    |               |          |
|       | 180                    | 1400                                | 5300             | 8400             | 46         | 180FEE               |             |                    |               |          |
|       | 200                    | 1900                                | 7100             | 11400            | 52         | 200FEE               |             |                    |               |          |
| FM    | 180                    | 1400                                | 7500             | 13500            | 40         | 180FM                | 1           | 0.240              | Fig. 4        | 35785314 |
|       | 200                    | 2600                                | 10500            | 18500            | 40         | 200FM                |             |                    |               |          |
|       | 225                    | 3700                                | 14500            | 26500            | 44         | 225FM                |             |                    |               |          |
|       | 250                    | 5200                                | 20500            | 37500            | 48         | 250FM                |             |                    |               |          |
|       | 280                    | 7000                                | 30500            | 55000            | 48         | 280FM                |             |                    |               |          |
|       | 315                    | 10000                               | 40000            | 77000            | 55         | 315FM                |             |                    |               |          |
|       | 350                    | 15000                               | 60000            | 105000           | 55         | 350FM                |             |                    |               |          |
| FMM   | 400                    | 10000                               | 40000            | 72500            | 85         | 400FMM               | 1           | 0.450              | Fig. 5        | 35785292 |
|       | 450                    | 15000                               | 60000            | 105000           | 90         | 450FMM               |             |                    |               |          |
|       | 500                    | 20000                               | 82000            | 150000           | 100        | 500FMM               |             |                    |               |          |
|       | 550                    | 30000                               | 120000           | 215000           | 100        | 550FMM               |             |                    |               |          |
|       | 630                    | 45000                               | 180000           | 310000           | 100        | 630FMM               |             |                    |               |          |
|       | 700                    | 60000                               | 245000           | 420000           | 120        | 700FMM               |             |                    |               |          |
| MT††  | 160                    | 2400                                | 15000            | 25000            | 26         | 160MT                | 1           | 0.260              | Fig. 4        | 35785313 |
|       | 180                    | 3800                                | 25000            | 38000            | 26         | 180MT                |             |                    |               |          |
|       | 200                    | 6000                                | 40000            | 58000            | 27         | 200MT                |             |                    |               |          |
|       | 250                    | 11500                               | 80000            | 110000           | 32         | 250MT                |             |                    |               |          |
|       | 280                    | 16500                               | 100000           | 150000           | 35         | 280MT                |             |                    |               |          |
|       | 315                    | 19000                               | 125000           | 180000           | 42         | 315MT                |             |                    |               |          |
|       | 355                    | 22000                               | 160000           | 200000           | 51         | 355MT                |             |                    |               |          |
| MMT†† | 180                    | 1650                                | 12000            | 18000            | 42         | 180MMT               | 1           | .0470              | Fig. 5        | 35785311 |
|       | 200                    | 2200                                | 16000            | 23000            | 42         | 200MMT               |             |                    |               |          |
|       | 225                    | 3700                                | 26000            | 40000            | 42         | 225MMT               |             |                    |               |          |
|       | 280                    | 6600                                | 47000            | 70000            | 47         | 280MMT               |             |                    |               |          |
|       | 315                    | 8600                                | 62000            | 91000            | 51         | 315MMT               |             |                    |               |          |
|       | 355                    | 13500                               | 97000            | 140000           | 54         | 355MMT               |             |                    |               |          |
|       | 400                    | 21000                               | 150000           | 220000           | 60         | 400MMT               |             |                    |               |          |
|       | 450                    | 30000                               | 220000           | 320000           | 57         | 450MMT               |             |                    |               |          |
|       | 500                    | 42000                               | 300000           | 450000           | 64         | 500MMT               |             |                    |               |          |
|       | 560                    | 60000                               | 430000           | 640000           | 64         | 560MMT               |             |                    |               |          |
|       | 630                    | 68500                               | 500000           | 720000           | 86         | 630MMT               |             |                    |               |          |
|       | 710                    | 78000                               | 600000           | 850000           | 105        | 710MMT               |             |                    |               |          |

† U.L. Recognition on CT, ET, FE, EET, FEE, FM, & FMM.

†† 350 Vdc (IEC) rating. Consult Bussmann for U.L. Recognition status.

- Interrupting rating 200kA RMS Symmetrical.
- (500 Vdc/Interrupting rating 50ka) U.L. Recognition for CT, ET, FE, EET, FEE, FM & FMM.
- Watts loss provided at rated current.
- Note: FC, 8ET, 12ET, 15ET, 20ET, 65EET and 75EET are available for replacement purposes on existing equipment.

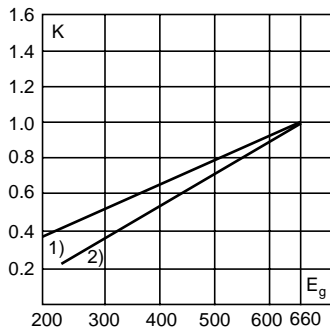
1 kg = 2.2 lbs 1 lb = 0.45 kg



### Electrical Characteristics

#### Total Clearing I²t

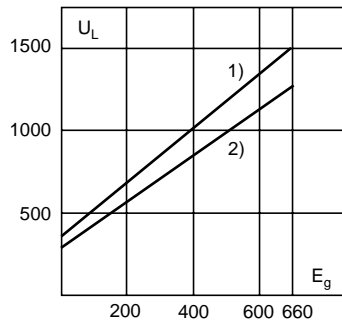
The total clearing I²t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E<sub>g</sub>, (RMS).



1) CT, ET, EET, FE, FEE, MT, MMT  
2) FM, FMM

#### Arc Voltage

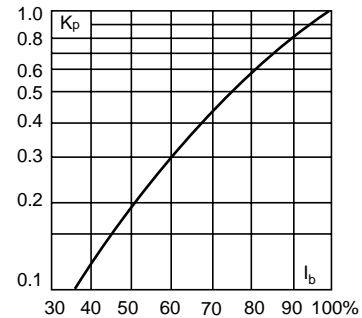
This curve gives the peak arc voltage, U<sub>L</sub>, which may appear across the fuse during its operation as a function of the applied working voltage, E<sub>g</sub>, (RMS) at a power factor of 15%.



1) CT  
2) ET, FE, EET, FEE, FM, FMM

#### 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<sub>p</sub>, is given as a function of the RMS load current, I<sub>b</sub>, in % of the rated current.



### Dimensions

Fig. 1: CT



Fig. 2: ET, FE

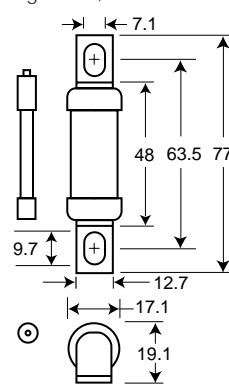


Fig. 3: EET, FEE



Fig. 4: FM, MT

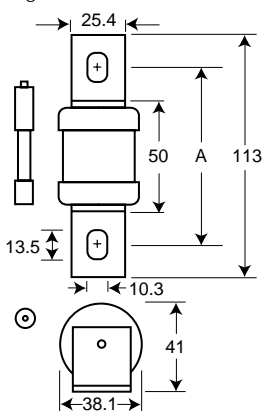
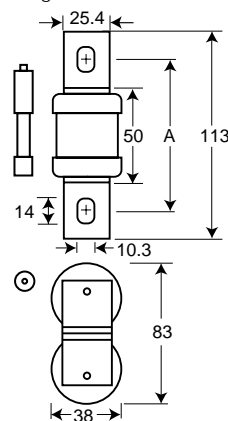


Fig. 5: FMM, MMT



| Type | "A" Dimension |
|------|---------------|
| FM   | 80-85         |
| FMM  | 80-85         |
| MT   | 85            |
| MMT  | 85            |

Dimensions in mm.  
1mm = 0.0394" 1" = 25.4mm

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