

British Style BS 88

**690V 6-700A**



| Electrical Characteristics |                           |           |                  |                  |            | Ordering Information |             |                    | Dimensions    | Curves   |
|----------------------------|---------------------------|-----------|------------------|------------------|------------|----------------------|-------------|--------------------|---------------|----------|
| Type                       | Rated Current<br>RMS-Amps | I²t (A²S) |                  |                  |            | 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        | 35785312 |
|                            | 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        |          |
|                            | 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        |          |
|                            | 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         | 90EET                | 5           | 0.450              | Fig. 3        |          |
|                            | 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        |          |
|                            | 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        |          |
|                            | 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        |          |
|                            | 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        |          |
|                            | 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        |          |
|                            | 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.

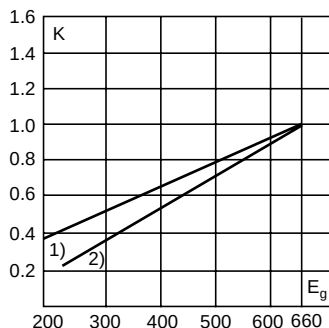
1 kg = 2.2 lbs 1 lb = 0.45 kg



## Electrical Characteristics

### Total Clearing $I^2t$

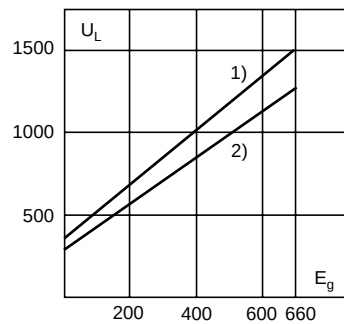
The total clearing  $I^2t$  at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing  $I^2t$  is found by multiplying by correction factor,  $K$ , given as a function of applied working voltage,  $E_g$ , (RMS).



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

### Arc Voltage

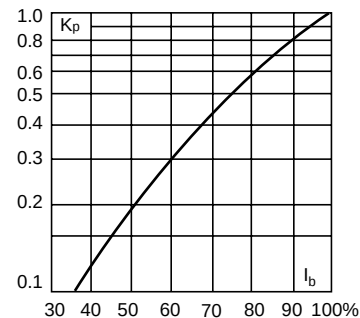
This curve gives the peak arc voltage,  $U_L$ , which may appear across the fuse during its operation as a function of the applied working voltage,  $E_g$ , (RMS) at a power factor of 15%.



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,  $K_p$ , is given as a function of the RMS load current,  $I_b$ , in % of the rated current.



## Dimensions

Fig. 1: CT

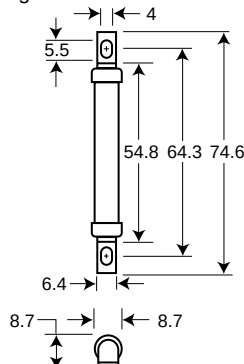


Fig. 2: ET, FE

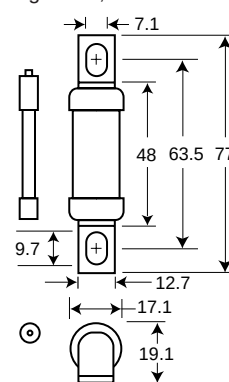


Fig. 3: EET, FEE

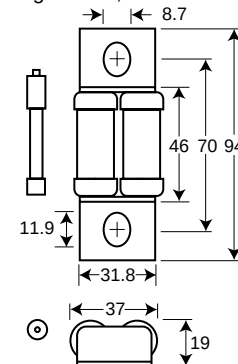


Fig. 4: FM, MT

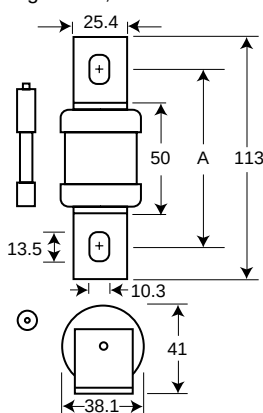
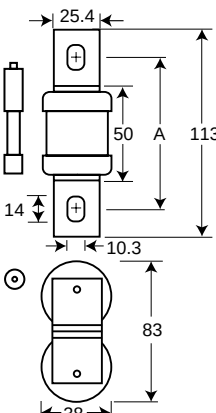


Fig. 5: FMM, MMT



| 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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