

British Style BS 88
690V 6-700A



| Type | Rated Current RMS-Amps | Electrical Characteristics | | | | Ordering Information | | | Dimensions | Curves |
|------|---------------------------|-------------------------------------|------------------|------------------|------------|----------------------|-------------|--------------------|---------------|-----------------------|
| | | I ² t (A ² S) | | | | Part Number | Carton Qty. | Carton Weight (kg) | Figure Number | See Page or (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 | page 75 (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 | page 75 (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 | page 76 (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 | page 77 (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 | page 76 (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 | page 77 (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 | | | | |
| 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 | | | | |

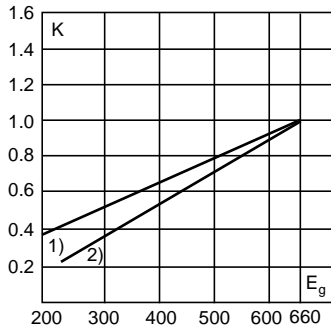
■ Interrupting rating 200kA RMS Symmetrical. ■ 450 Vdc rating
 ■ Watts loss provided at rated current. 1 kg = 2.2 lbs 1 lb = 0.45 kg
 ■ Note: FC, 8ET, 12ET, 15ET, 20ET, 65EET and 75EET are available for replacement purposes on existing equipment.
 ■ See accessories on page 72.
 †350 Vdc (IEC) rating. Consult Bussmann for U.L. Recognition status.



Electrical Characteristics

Total Clearing I²t

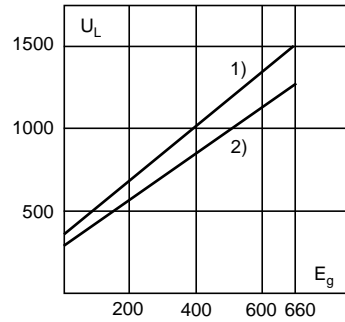
The total clearing I²t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).



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

Arc Voltage

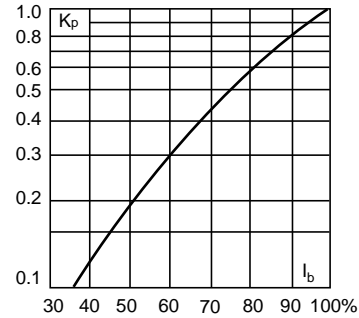
This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15%.



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

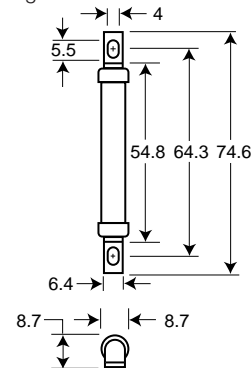


Fig. 2: ET, FE

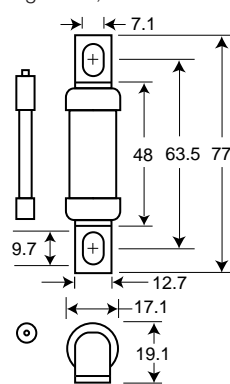


Fig. 3: EET, FEE

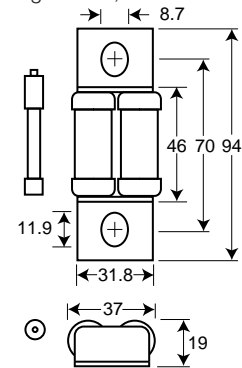


Fig. 4: FM, MT

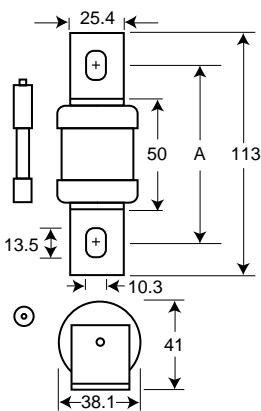
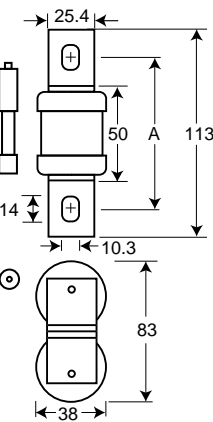


Fig. 5: FMM, MMT



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

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

This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.