

Square Body – DIN 43 653

690V/700V (IEC/U.L.) 40-2000A



| Electrical Characteristics | | | | | Ordering Information | | | Curves | |
|----------------------------|------------------------|-------------------------------------|------------------|------------|-----------------------------------|------------------------------------|--------------|--------------------|----------|
| Size | Rated Current RMS-Amps | I ² t (A ² S) | | Watts Loss | -KN/80 Type K Indicator for Micro | -KN/110 Type K Indicator for Micro | Carton Qty. | Carton Weight (kg) | BIF # |
| | | Pre-arc | Clearing at 660V | | | | | | |
| 1* | 40 | 40 | 270 | 9 | 170M3108 | 170M3258 | 5 | 1.60 | 17056314 |
| | 50 | 77 | 515 | 11 | 170M3109 | 170M3259 | | | |
| | 63 | 115 | 770 | 14 | 170M3110 | 170M3260 | | | |
| | 80 | 185 | 1250 | 18 | 170M3111 | 170M3261 | | | |
| | 100 | 360 | 2450 | 21 | 170M3112 | 170M3262 | | | |
| | 125 | 550 | 3700 | 26 | 170M3113 | 170M3263 | | | |
| | 160 | 1100 | 7500 | 30 | 170M3114 | 170M3264 | | | |
| | 200 | 2200 | 15000 | 35 | 170M3115 | 170M3265 | | | |
| | 250 | 4200 | 28500 | 40 | 170M3116 | 170M3266 | | | |
| | 315 | 7000 | 46500 | 50 | 170M3117 | 170M3267 | | | |
| | 350 | 10000 | 68500 | 55 | 170M3118 | 170M3268 | | | |
| | 400 | 15000 | 105000 | 60 | 170M3119 | 170M3269 | | | |
| | 450 | 21000 | 140000 | 65 | 170M3120 | 170M3270 | | | |
| | 500 | 27000 | 180000 | 70 | 170M3121 | 170M3271 | | | |
| | 550 | 34000 | 230000 | 75 | 170M3122 | 170M3272 | | | |
| | 630 | 48500 | 325000 | 80 | 170M3123 | 170M3273 | | | |
| 1 | 200 | 1650 | 11500 | 45 | 170M4108 | 170M4258 | 3 (-/80) | 1.38 | 17056316 |
| | 250 | 3100 | 21000 | 55 | 170M4109 | 170M4259 | | | |
| | 315 | 6200 | 42000 | 58 | 170M4110 | 170M4260 | | | |
| | 350 | 8500 | 59000 | 60 | 170M4111 | 170M4261 | 2 (-/110) | 1.00 | |
| | 400 | 13500 | 91500 | 65 | 170M4112 | 170M4262 | | | |
| | 450 | 17000 | 120000 | 70 | 170M4113 | 170M4263 | | | |
| | 500 | 25000 | 170000 | 72 | 170M4114 | 170M4264 | | | |
| | 550 | 34000 | 230000 | 75 | 170M4115 | 170M4265 | | | |
| | 630 | 52000 | 350000 | 80 | 170M4116 | 170M4266 | | | |
| | 700 | 69500 | 465000 | 85 | 170M4117 | 170M4267 | | | |
| | 800 | 105000 | 725000 | 95 | 170M4118 | 170M4268 | | | |
| | †900 | 155000 | †850000 | 100 | 170M4119 | 170M4269 | | | |
| 2 | 400 | 11000 | 74000 | 65 | 170M5108 | 170M5258 | 2 | 1.26 | 17056318 |
| | 450 | 15500 | 105000 | 70 | 170M5109 | 170M5259 | | | |
| | 500 | 21500 | 145000 | 75 | 170M5110 | 170M5260 | | | |
| | 550 | 28000 | 190000 | 80 | 170M5111 | 170M5261 | | | |
| | 630 | 41000 | 275000 | 90 | 170M5112 | 170M5262 | | | |
| | 700 | 60500 | 405000 | 95 | 170M5113 | 170M5263 | | | |
| | 800 | 86000 | 575000 | 105 | 170M5114 | 170M5264 | | | |
| | 900 | 125000 | 840000 | 110 | 170M5115 | 170M5265 | | | |
| | 1000 | 180000 | 1250000 | 115 | 170M5116 | 170M5266 | | | |
| | 1100 | 245000 | 1600000 | 120 | 170M5117 | 170M5267 | | | |
| 1250 | 365000 | 2400000 | 130 | 170M5118 | 170M5268 | | | | |
| 3 | 500 | 14000 | 95000 | 95 | 170M6108 | 170M6258 | 1 | 0.92 | 17056320 |
| | 550 | 19500 | 135000 | 100 | 170M6109 | 170M6259 | | | |
| | 630 | 31000 | 210000 | 105 | 170M6110 | 170M6260 | | | |
| | 700 | 44500 | 300000 | 110 | 170M6111 | 170M6261 | | | |
| | 800 | 69500 | 465000 | 115 | 170M6112 | 170M6262 | | | |
| | 900 | 100000 | 670000 | 120 | 170M6113 | 170M6263 | | | |
| | 1000 | 140000 | 945000 | 125 | 170M6114 | 170M6264 | | | |
| | 1100 | 190000 | 1300000 | 130 | 170M6115 | 170M6265 | | | |
| | 1250 | 290000 | 1950000 | 140 | 170M6116 | 170M6266 | | | |
| | 1400 | 370000 | 2450000 | 155 | 170M6117 | 170M6267 | | | |
| | 1500 | 460000 | 3100000 | 160 | 170M6118 | 170M6268 | | | |
| | 1600 | 580000 | 3900000 | 160 | 170M6119 | 170M6269 | | | |
| | †1800 | 880000 | †5250000 | 165 | 170M6120 | 170M6270 | | | |
| †2000 | 1150000 | †6350000 | 175 | 170M6121 | 170M6271 | | | | |

- Interrupting rating 200kA (Estimated 300kA) RMS Symmetrical.
- Watts loss provided at rated current.
- Rated voltage (IEC) †600V †550V (Consult Bussmann for U.L. Recognition/ CSA Component Acceptance status.)
- Microswitch indicator ordered separately.

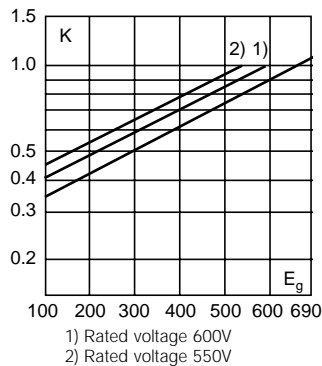
1 kg = 2.2 lbs. 1 lb = 0.45 kg



Electrical Characteristics

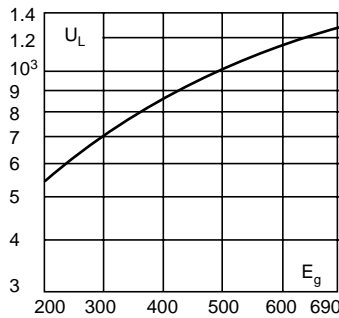
Total Clearing I²t

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_g, (RMS).



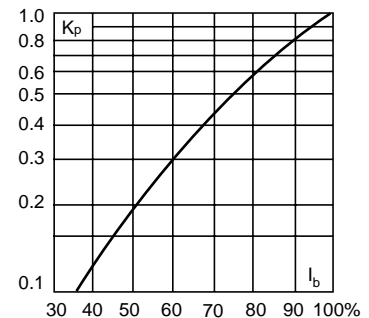
Arc Voltage

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.

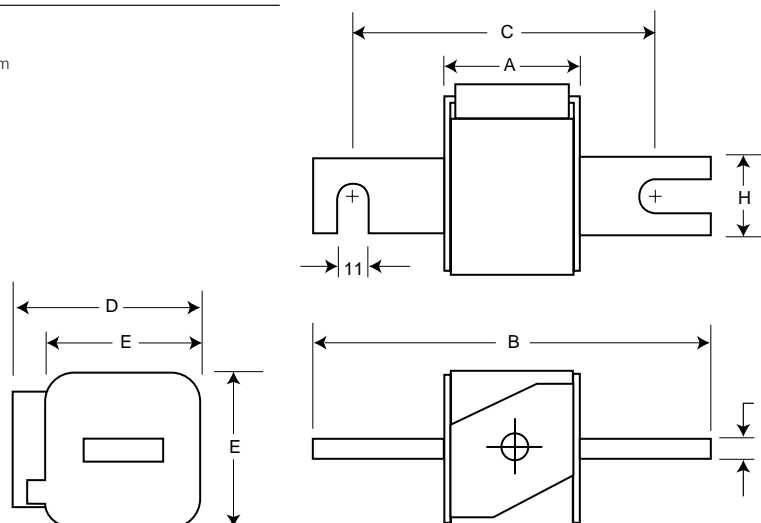


Dimensions

DIN 43 653: Type -KN/80, -KN/110

| Size | A | B | B\$ | C | C\$ | D | E | H |
|------|----|-----|-----|----|-----|----|----|----|
| 1* | 50 | 104 | 134 | 78 | 108 | 59 | 45 | 22 |
| 1 | 50 | 108 | 138 | 78 | 108 | 69 | 53 | 25 |
| 2 | 50 | 108 | 138 | 78 | 108 | 77 | 61 | 25 |
| 3 | 51 | 109 | 139 | 78 | 108 | 92 | 76 | 30 |

\$Valid for fuse type -KN/110.
Dimension in mm.
1mm = 0.0394" 1" = 25.4mm



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