

Square Body – DIN 43 653

**1250V/1300V (IEC/U.L.) 50-1400A**

| Electrical Characteristics |                           |                                     |                      |                      |               | Ordering Information                                  |                |                          | Curves   |
|----------------------------|---------------------------|-------------------------------------|----------------------|----------------------|---------------|-------------------------------------------------------|----------------|--------------------------|----------|
| Size                       | Rated Current<br>RMS-Amps | I <sup>2</sup> t (A <sup>2</sup> S) |                      |                      | Watts<br>Loss | -KN/110<br>Type K<br>Visual<br>Indicator<br>for Micro | Carton<br>Qty. | Carton<br>Weight<br>(kg) | BIF #    |
|                            |                           | Pre-arc                             | Clearing<br>at 1000V | Clearing<br>at 1250V |               |                                                       |                |                          |          |
| 1*                         | 50                        | 135                                 | 815                  | 1100                 | 15            | 170M3238                                              | 2              | 0.84                     | 17056630 |
|                            | 63                        | 215                                 | 1300                 | 1750                 | 20            | 170M3239                                              |                |                          |          |
|                            | 80                        | 420                                 | 2500                 | 3350                 | 25            | 170M3240                                              |                |                          |          |
|                            | 100                       | 750                                 | 4450                 | 5950                 | 30            | 170M3241                                              |                |                          |          |
|                            | 125                       | 1450                                | 9000                 | 11500                | 35            | 170M3242                                              |                |                          |          |
|                            | 160                       | 2600                                | 16000                | 21000                | 40            | 170M3243                                              |                |                          |          |
|                            | 200                       | 5150                                | 31000                | 41000                | 45            | 170M3244                                              |                |                          |          |
|                            | 250                       | 9200                                | 54500                | 73000                | 55            | 170M3245                                              |                |                          |          |
|                            | 315                       | 18500                               | 115000               | 150000               | 60            | 170M3246                                              |                |                          |          |
|                            | 350                       | 27000                               | 165000               | 220000               | 65            | 170M3247                                              |                |                          |          |
|                            | 400                       | 53000                               | 265000               | 335000               | 70            | 170M3248                                              |                |                          |          |
| 1                          | 160                       | 1900                                | 11500                | 15500                | 45            | 170M4238                                              | 2              | 1.26                     | 17056632 |
|                            | 200                       | 3800                                | 22500                | 30000                | 50            | 170M4239                                              |                |                          |          |
|                            | 250                       | 7750                                | 46000                | 61500                | 60            | 170M4240                                              |                |                          |          |
|                            | 315                       | 15000                               | 90000                | 120000               | 65            | 170M4241                                              |                |                          |          |
|                            | 350                       | 20000                               | 125000               | 165000               | 70            | 170M4242                                              |                |                          |          |
|                            | 400                       | 29500                               | 175000               | 235000               | 75            | 170M4243                                              |                |                          |          |
|                            | 450                       | 42000                               | 250000               | 335000               | 80            | 170M4244                                              |                |                          |          |
|                            | 500                       | 69500                               | 340000               | 435000               | 85            | 170M4245                                              |                |                          |          |
|                            | 550                       | 95000                               | 465000               | 590000               | 95            | 170M4246                                              |                |                          |          |
|                            | †630                      | 130000                              | 660000               |                      | 100           | 170M4247                                              |                |                          |          |
|                            |                           |                                     |                      |                      |               |                                                       |                |                          |          |
| 2                          | 250                       | 6500                                | 38500                | 51500                | 65            | 170M5238                                              | 2              | 1.66                     | 17056634 |
|                            | 280                       | 9350                                | 55500                | 74500                | 70            | 170M5239                                              |                |                          |          |
|                            | 315                       | 13000                               | 77500                | 105000               | 75            | 170M5240                                              |                |                          |          |
|                            | 350                       | 16500                               | 97500                | 135000               | 80            | 170M5241                                              |                |                          |          |
|                            | 400                       | 23000                               | 140000               | 180000               | 85            | 170M5242                                              |                |                          |          |
|                            | 450                       | 34000                               | 205000               | 270000               | 90            | 170M5243                                              |                |                          |          |
|                            | 500                       | 48000                               | 285000               | 380000               | 95            | 170M5244                                              |                |                          |          |
|                            | 550                       | 62000                               | 370000               | 495000               | 100           | 170M5245                                              |                |                          |          |
|                            | 630                       | 115000                              | 575000               | 730000               | 110           | 170M5246                                              |                |                          |          |
|                            | 700                       | 160000                              | 795000               | 1050000              | 115           | 170M5247                                              |                |                          |          |
|                            | 800                       | 245000                              | 1200000              | 1550000              | 120           | 170M5248                                              |                |                          |          |
|                            | †900                      | 360000                              | 1750000              |                      | 125           | 170M5249                                              |                |                          |          |
|                            | †1000                     | 480000                              | 2350000              |                      | 135           | 170M5250                                              |                |                          |          |
|                            |                           |                                     |                      |                      |               |                                                       |                |                          |          |
| 3                          | 315                       | 9500                                | 58000                | 77500                | 85            | 170M6238                                              | 1              | 1.27                     | 17056636 |
|                            | 350                       | 13500                               | 81500                | 110000               | 90            | 170M6239                                              |                |                          |          |
|                            | 400                       | 19500                               | 120000               | 160000               | 95            | 170M6240                                              |                |                          |          |
|                            | 450                       | 31000                               | 185000               | 245000               | 100           | 170M6241                                              |                |                          |          |
|                            | 500                       | 39000                               | 235000               | 310000               | 105           | 170M6242                                              |                |                          |          |
|                            | 550                       | 55000                               | 325000               | 435000               | 110           | 170M6243                                              |                |                          |          |
|                            | 630                       | 83500                               | 495000               | 665000               | 115           | 170M6244                                              |                |                          |          |
|                            | 700                       | 115000                              | 705000               | 940000               | 120           | 170M6245                                              |                |                          |          |
|                            | †800                      | 205000                              | 995000               | 1300000              | 125           | 170M6246                                              |                |                          |          |
|                            | †900                      | 305000                              | 1500000              | 1900000              | 130           | 170M6247                                              |                |                          |          |
|                            | †1000                     | 450000                              | 2150000              | 2750000              | 135           | 170M6248                                              |                |                          |          |
|                            | †1100                     | 575000                              | 2800000              | 3600000              | 140           | 170M6249                                              |                |                          |          |
|                            | †1250                     | 810000                              | 3950000              |                      | 145           | 170M6250                                              |                |                          |          |
|                            | †1400                     | 1250000                             | 6000000              |                      | 150           | 170M6251                                              |                |                          |          |

■ Interrupting rating 100kA RMS Symmetrical.

■ Watts loss provided at rated current.

■ Rated voltage (IEC) †1100V †1250V (Consult Bussmann for U.L. Recognition/ CSA Component Acceptance status.)

■ Microswitch indicator ordered separately.

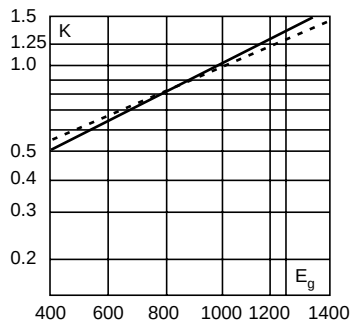
1 kg = 2.2 lbs. 1 lb = 0.45 kg



## Electrical Characteristics

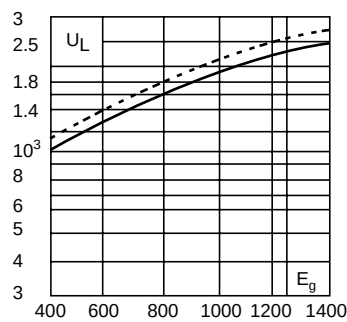
### Total Clearing $I^2t$

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).



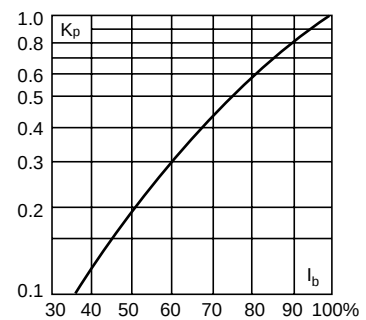
### Arc Voltage

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.



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Dashed lines apply to the following amperages:

| Size | 1*  | 1       | 2        | 3        |
|------|-----|---------|----------|----------|
| Amp  | 400 | 500-630 | 630-1000 | 800-1400 |

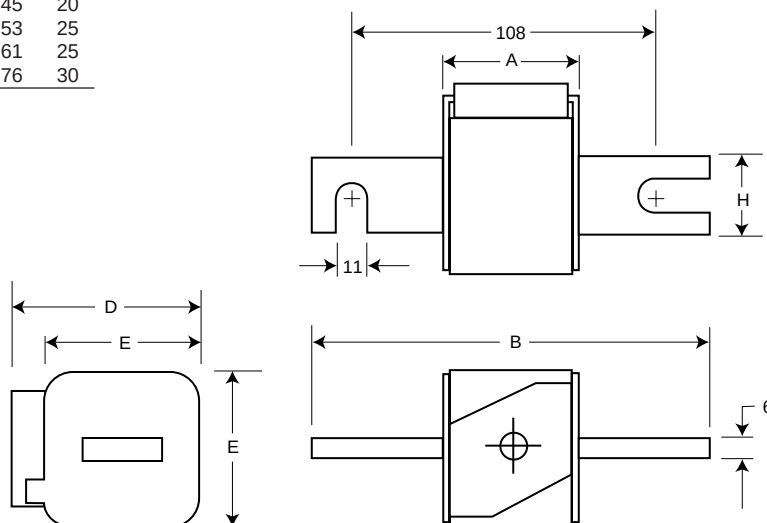
## Dimensions

DIN 43 653: Type -KN/110

| Size | A  | B   | D  | E  | H  |
|------|----|-----|----|----|----|
| 1*   | 80 | 138 | 59 | 45 | 20 |
| 1    | 80 | 138 | 69 | 53 | 25 |
| 2    | 80 | 138 | 77 | 61 | 25 |
| 3    | 81 | 139 | 92 | 76 | 30 |

Dimension in mm.

1mm = 0.0394" 1" = 25.4mm



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