

Square Body – DIN 43 653

1000V (IEC/U.L.) 250-800A



| Electrical Characteristics | | | | | | Ordering Information | | | |
|----------------------------|---------------|------------------------|-------------------------------------|---------------------------|------------|------------------------------------|------------------------------------|-------------|--------------------|
| Size | Rated Voltage | Rated Current RMS-Amps | I ² t (A ² s) | | Watts Loss | -KN/110 Type K Indicator for Micro | -TN/110 Type T Indicator for Micro | Carton Qty. | Carton Weight (kg) |
| | | | Pre-arc | Clearing at Rated Voltage | | | | | |
| 2 | 1000 | 250 | 6750 | 40000 | 65 | 170M5966 | 170M5981 | 3 | 2.7 |
| | 1000 | 315 | 13500 | 81500 | 75 | 170M5967 | 170M5982 | | |
| | 1000 | 350 | 16500 | 99000 | 80 | 170M5968 | 170M5983 | | |
| | 1000 | 400 | 26000 | 155000 | 85 | 170M5969 | 170M5984 | | |
| | 1000 | 450 | 35500 | 210000 | 90 | 170M5970 | 170M5985 | | |
| | 1000 | 500 | 49500 | 295000 | 95 | 170M5971 | 170M5986 | | |
| | 1000 | 550 | 66000 | 390000 | 100 | 170M5972 | 170M5987 | | |
| | 1000 | 630 | 93500 | 555000 | 110 | 170M5973 | 170M5988 | | |
| | 1000 | 700 | 130000 | 770000 | 115 | 170M5974 | 170M5989 | | |
| | 1000 | 800 | 195000 | 1200000 | 125 | 170M5975 | 170M5990 | | |
| | 1000 | 315 | 9200 | 54500 | 90 | 170M8614 | 170M8629 | | |

1 kg = 2.2 lbs. 1 lb = 0.45 kg

- Interrupting rating 150kA (Estimated 300kA) RMS Symmetrical.
- Watts loss provided at rated current.
- Microswitch ordered separately.

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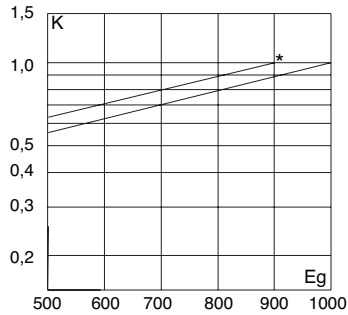


Electrical Characteristics

Total clearing I²t

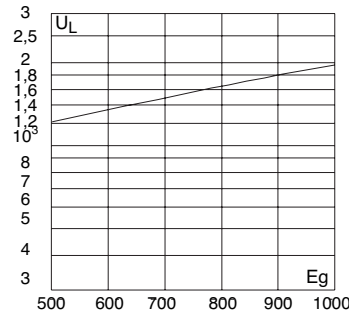
The total clearing I²t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).

*Rated voltage 900V



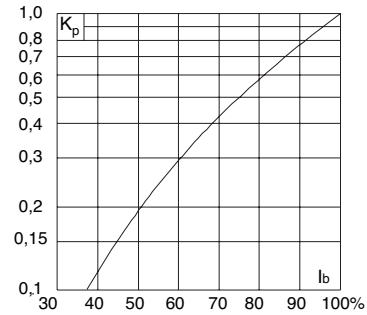
Arc Voltage

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

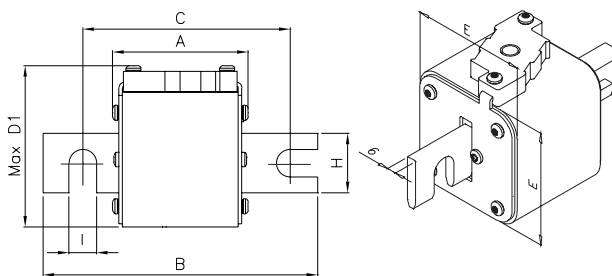
DIN 43 653 Type –KN/110 and –TN/110

| Size | A | B | C | Max D1 | E | G | H | I |
|----------|----|-----|-----|--------|----|---|----|----|
| 1*KN/110 | 80 | 138 | 108 | 61 | 43 | 6 | 22 | 11 |
| 1KN/110 | 80 | 138 | 108 | 69 | 51 | 6 | 25 | 11 |
| 2KN/110 | 80 | 138 | 108 | 77 | 59 | 6 | 25 | 11 |
| 3KN/110 | 81 | 139 | 108 | 92 | 74 | 6 | 30 | 11 |

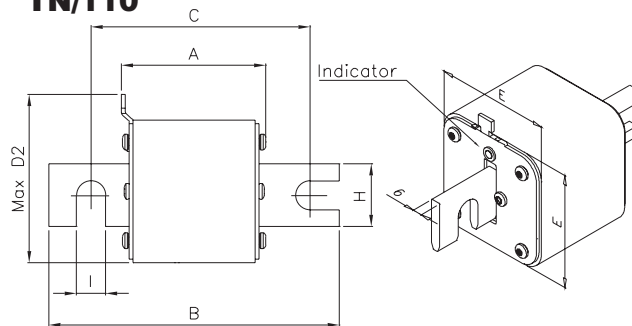
| Size | A | B | C | Max D2 | E | G | H | I |
|----------|----|-----|-----|--------|----|---|----|----|
| 1*TN/110 | 80 | 138 | 108 | 61 | 43 | 6 | 22 | 11 |
| 1TN/110 | 80 | 138 | 108 | 69 | 51 | 6 | 25 | 11 |
| 2TN/110 | 80 | 138 | 108 | 75 | 59 | 6 | 25 | 11 |
| 3TN/110 | 81 | 139 | 108 | 90 | 74 | 6 | 30 | 11 |

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

KN/110



TN/110





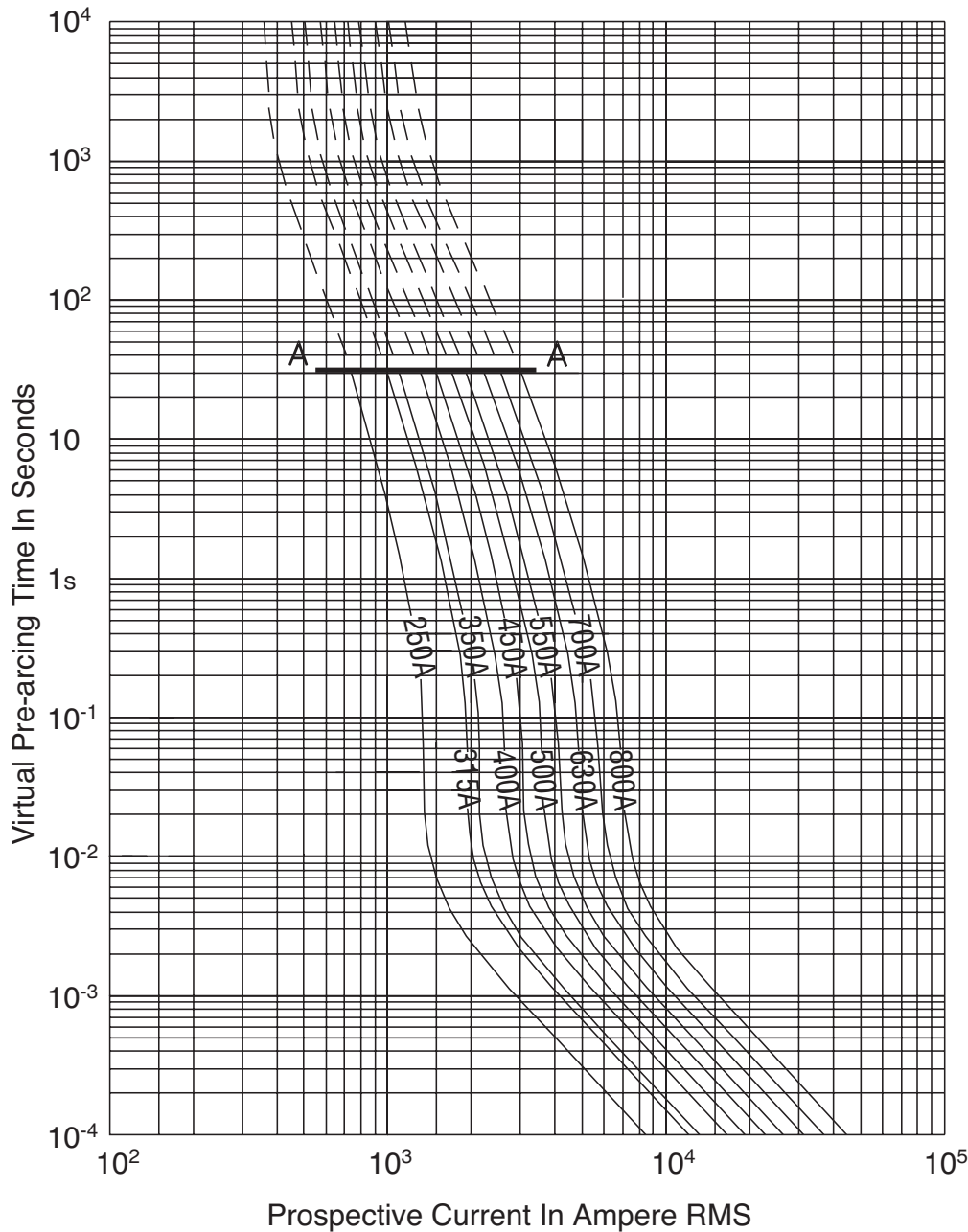
Semiconductor Fuse

250-800A, 1000 Volts

BIF Document
720060

Size

2



The partial dotted curves are for fuses designed to give part range protection (aR protection). Loading or operation above the curve indicated at A on the curves must in general be avoided. Please see technical guidance 170K... for further information. Curves that are not dotted are for fuses designed to give full range protection.

Pre-Arcing Time-Current Characteristic Curves
TYPOWER ZILOX

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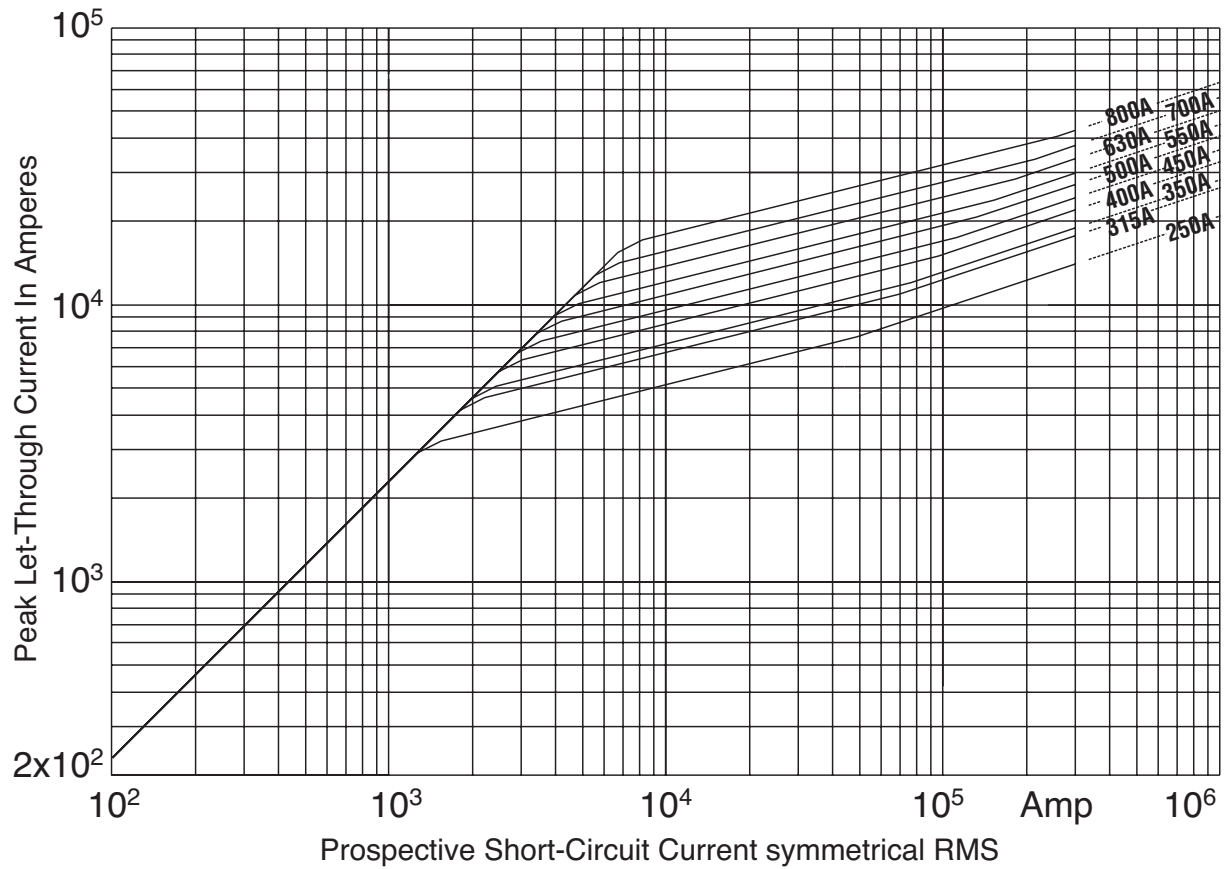


Semiconductor Fuse 250-800A, 1000 Volts

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Peak Let-Through Cut-Off Current Characteristic Curves
TYPOWER ZILOX

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