

Square Body – DIN 43 653

**1000V (IEC/U.L.) 50-400A**



Electrical Characteristics						Ordering Information			
Size	Rated Voltage	Rated Current RMS-Amps	I <sup>2</sup> t (A <sup>2</sup> 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					
1*	1000	50	135	815	20	170M3965	170M3981	6	2.7
	1000	63	215	1300	25	170M3966	170M3982		
	1000	80	460	2750	30	170M3967	170M3983		
	1000	100	860	5100	35	170M3968	170M3984		
	1000	125	1450	8600	40	170M3969	170M3985		
	1000	160	2850	17500	45	170M3970	170M3986		
	1000	200	4950	29500	48	170M3971	170M3987		
	1000	250	9550	57000	50	170M3972	170M3988		
	1000	315	21500	130000	60	170M3973	170M3989		
	1000	350	29000	175000	65	170M3974	170M3990		
	1000	400	42000	250000	70	170M3975	170M3991		

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 I<sup>2</sup>t**

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

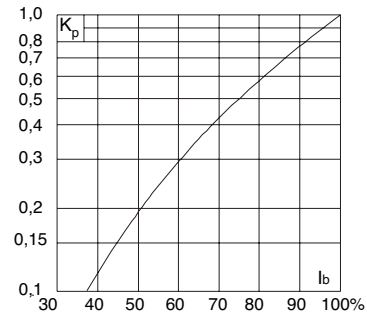
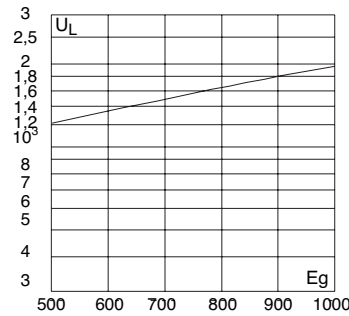
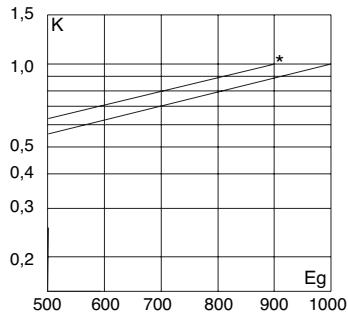
**Arc Voltage**

This curve gives the peak arc voltage, U<sub>L</sub>, which may appear across the fuse during its operation as a function of the applied working voltage E<sub>g</sub>, (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<sub>p</sub>, is given as a function of the RMS load current, I<sub>b</sub>, in % of the rated current.

\*Rated voltage 900V



**Dimensions**

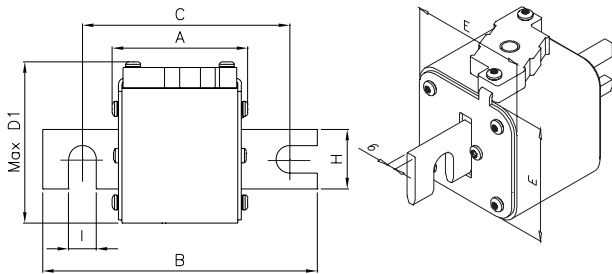
DIN 43 653 Type –KN/110 and –TN/110

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

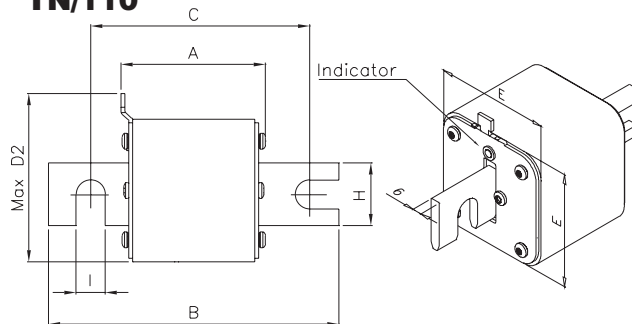
Size	A	B	C	Max D2	E	G	H	I
1*TN/110	80	138	108	61	43	6	22	11
1TN/110	80	138	108	69	51	6	25	11
2TN/110	80	138	108	75	59	6	25	11
3TN/110	81	139	108	90	74	6	30	11

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

**KN/110**



**TN/110**

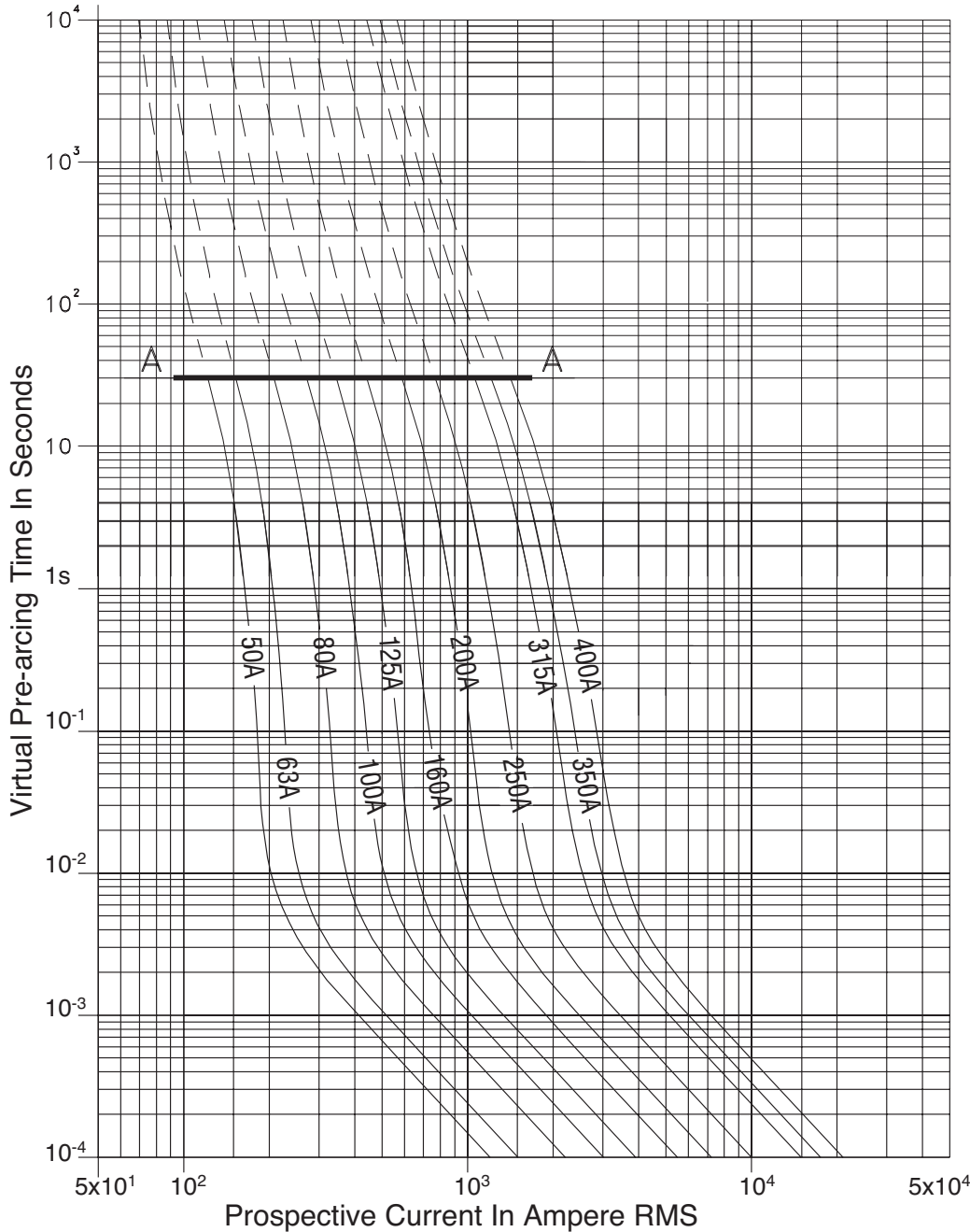




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# Semiconductor Fuse 50-400A, 1000 Volts

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**720058**



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**

Approved: **PK**  
Rev. Date: **NOV-01**

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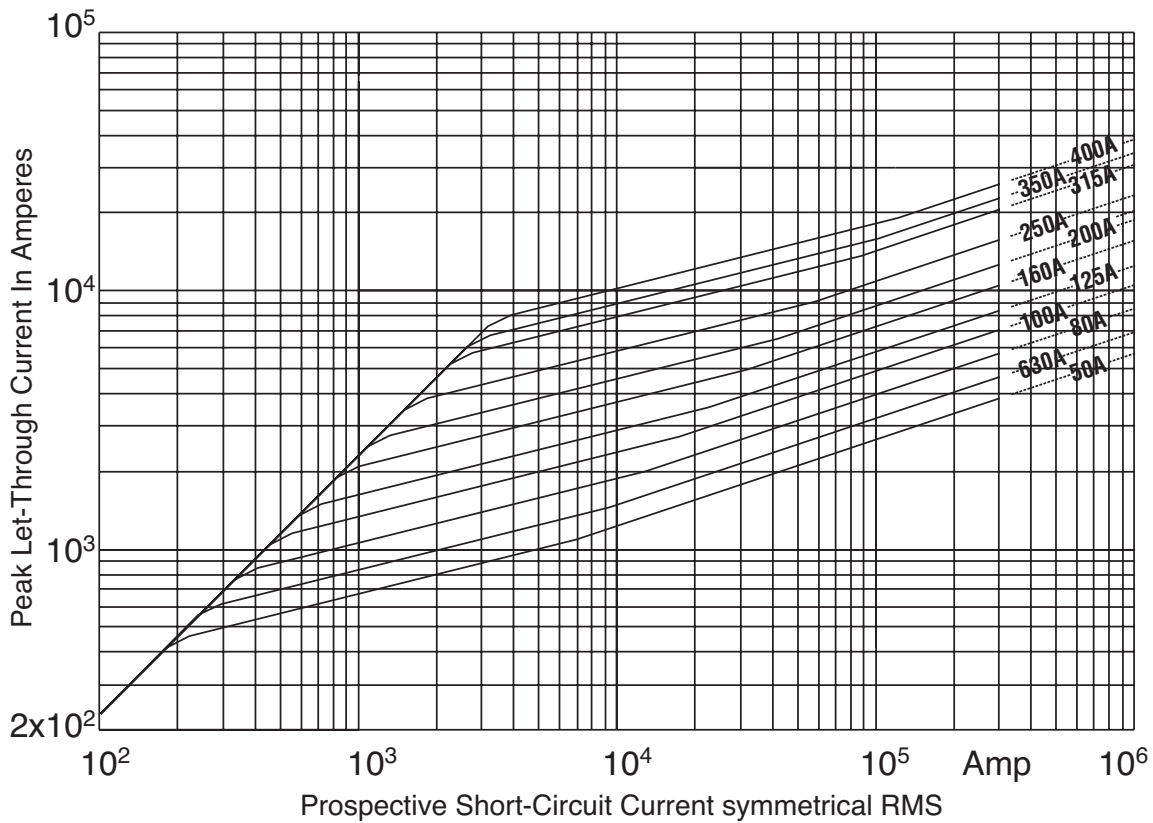
# Semiconductor Fuse

## 50-400A, 1000 Volts

BIF Document  
**720058**

Size

**1\***



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

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