

## Square Body DIN 43 653 — 1000V (IEC): 50-1400A

### 1000V (IEC) 50-1400A

#### Specifications

**Description:** Square body mount high speed fuses.

**Dimensions:** See dimensions illustrations.

Ratings:

Volts: — 1000Vac.

Amps: — 50-1400A

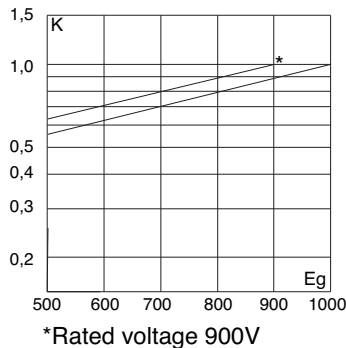
IR: — 150kA RMS Sym.

**Agency Information:** CE, Designed and tested to IEC 60269: Part 4, UL Recognized.

#### Electrical Characteristics

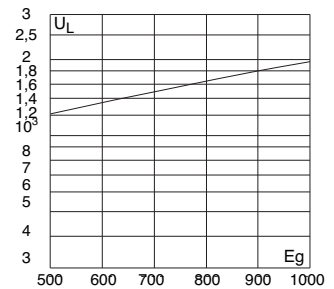
##### Total clearing I<sup>2</sup>t

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).



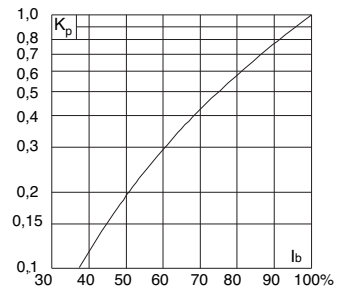
##### Arc Voltage

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.



##### Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I<sup>2</sup>t)
- Low watts loss
- Superior cycling capability

##### Typical Applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

##### For Other Voltage Ratings in This Body Style

- See pages 122 (690V/700V) and 160 (1250V/1300V)

#### Dimensions (mm)

##### Type -KN/110

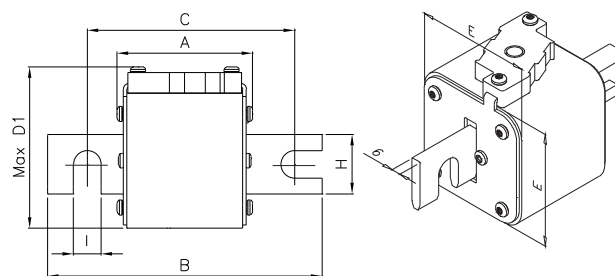
Size	A	B	C	Max D1	E	G	H	I
1*KN/110	80	138	108	61	43	6	22	11
1KN/110	80	138	108	69	51	6	25	11
2KN/110	80	138	108	77	59	6	25	11
3KN/110	81	139	108	92	74	6	30	11

##### Type -TN/110

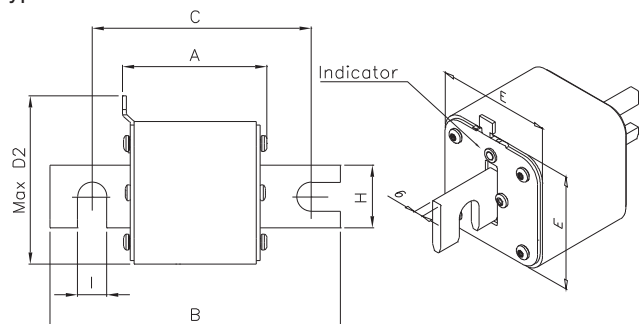
Size	A	B	C	Max D2	E	G	H	I
1*TN/110	80	138	108	61	43	6	22	11
1TN/110	80	138	108	69	51	6	25	11
2TN/110	80	138	108	75	59	6	25	11
3TN/110	81	139	108	90	74	6	30	11

1mm = 0.0394" / 1" = 25.4mm

##### Type-KN/110



##### Type-TN/110



## Square Body DIN 43 653 — 1000V (IEC): 50-1400A

### Catalog Numbers

Catalog Numbers		Size	Rated Voltage	Electrical Characteristics			Watts Loss	
-KN/110 Type K Indicator for Micro	-TN/110 Type T Indicator for Micro			Rated Current RMS Amps	Pt (A <sup>2</sup> Sec)			
					Pre-arc	Clearing at Rated Voltage		
170M3965	170M3981	1*	1000	50	135	815	20	
170M3966	170M3982		1000	63	215	1300	25	
170M3967	170M3983		1000	80	460	2750	30	
170M3968	170M3984		1000	100	860	5100	35	
170M3969	170M3985		1000	125	1450	8600	40	
170M3970	170M3986		1000	160	2850	17500	45	
170M3971	170M3987		1000	200	4950	29500	48	
170M3972	170M3988		1000	250	9550	57000	50	
170M3973	170M3989		1000	315	21500	130000	60	
170M3974	170M3990		1000	350	29000	175000	65	
170M3975	170M3991		1000	400	42000	250000	70	
170M4965	170M4980		1	1000	160	2200	13500	40
170M4966	170M4981			1000	200	4150	24500	45
170M4967	170M4982	1000		250	7750	46000	52	
170M4968	170M4983	1000		315	16500	98500	60	
170M4969	170M4984	1000		350	21500	130000	65	
170M4970	170M4985	1000		400	31000	185000	70	
170M4971	170M4986	1000		450	44500	265000	80	
170M4972	170M4987	1000		500	63000	375000	85	
170M4973	170M4988	1000		550	84500	500000	90	
170M4974	170M4989	1000		630	125000	755000	98	
170M5966	170M5981	2	1000	250	6750	40000	65	
170M5967	170M5982		1000	315	13500	81500	75	
170M5968	170M5983		1000	350	16500	99000	80	
170M5969	170M5984		1000	400	26000	155000	85	
170M5970	170M5985		1000	450	35500	210000	90	
170M5971	170M5986		1000	500	49500	295000	95	
170M5972	170M5987		1000	550	66000	390000	100	
170M5973	170M5988		1000	630	93500	555000	110	
170M5974	170M5989		1000	700	130000	770000	115	
170M5975	170M5990		1000	800	195000	1200000	125	
170M8614	170M8629	3	1000	315	9200	54500	90	
170M8615	170M8630		1000	350	13000	77500	95	
170M8616	170M8631		1000	400	19000	115000	105	
170M8617	170M8632		1000	450	27000	160000	107	
170M8618	170M8633		1000	500	37500	225000	110	
170M8619	170M8634		1000	550	52000	310000	115	
170M8620	170M8635		1000	630	82500	490000	120	
170M8621	170M8636		1000	700	115000	700000	125	
170M8622	170M8637		1000	800	170000	1050000	135	
170M8623	170M8638		1000	900	250000	1500000	145	
170M8624	170M8639		1000	1000	340000	2050000	150	
170M8625	170M8640		1000	1100	460000	2750000	155	
170M8626	170M8641		1000	1250	575000	3400000	175	
170M8627	170M8642		900	1400	795000	4200000	185	

- Watts loss provided at rated current.
- Microswitch ordered separately. See accessories on page 185-186.
- For fuse curves see pages 152 and 153.

High Speed Fuses