

# High Speed Fuses

## Square Body French Style — 690V/700V (IEC/UL): 40-1500A

### 690V/700V (IEC/UL) 40-1500A

#### Specifications

**Description:** Square body French style high speed fuses.

**Dimensions:** See dimensions illustration.

#### Ratings:

- Volts: — 690Vac (IEC)
- 700Vac (UL)

Amps: — 40-1500A

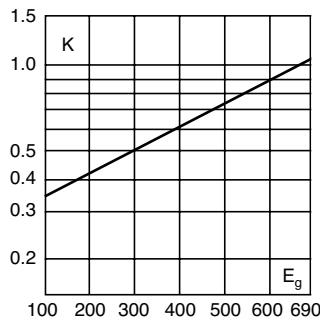
IR: — 200kA RMS Sym.

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

#### Electrical Characteristics

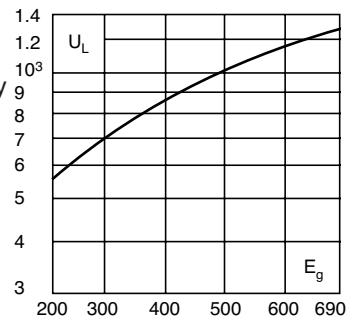
##### Total Clearing I<sup>2</sup>t

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).



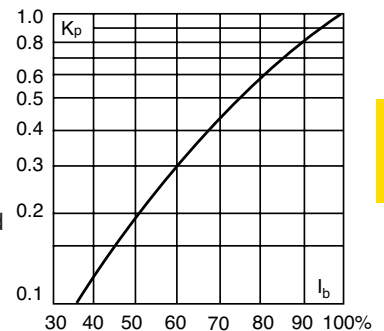
#### Arc Voltage

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

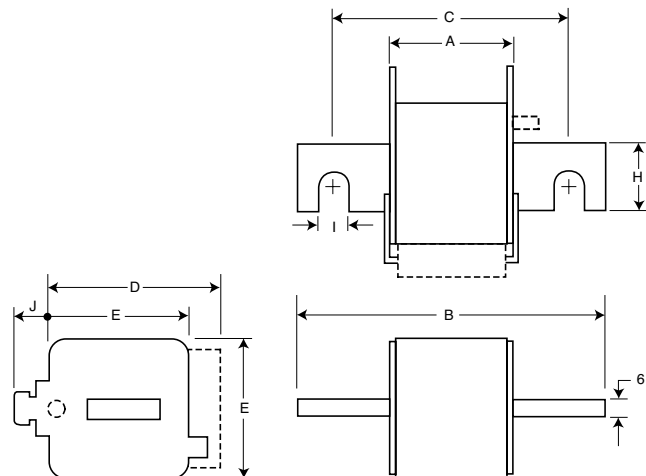
- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

#### Dimensions (mm)

Type -E/-, -EKN/-

Size	A	B	C	D	E	H	I	J
1*	50	102	76	59	45	18	9	13
1	50	111	86	69	53	25	11	11
2	50	126	91	77	61	30	13	12
3	51	126	91	92	76	36	13	13

1mm = 0.0394" / 1" = 25.4mm



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## Catalog Numbers

Catalog Numbers		Size	Electrical Characteristics				
-E/ Type T Indicator For Micro	-EKN/ Type K Indicator for Micro		Rated Current RMS-Amps	I <sup>2</sup> t (A <sup>2</sup> Sec)		Watts Loss	
				Pre-arc	Clearing at 660V		
170M3308	170M3358	1*	40	40	270	9	
170M3309	170M3359		50	77	515	11	
170M3310	170M3360		63	115	770	14	
170M3311	170M3361		80	185	1250	18	
170M3312	170M3362		100	360	2450	21	
170M3313	170M3363		125	550	3700	26	
170M3314	170M3364		160	1100	7500	30	
170M3315	170M3365		200	2200	15000	35	
170M3316	170M3366		250	4200	28500	40	
170M3317	170M3367		315	7000	46500	50	
170M3318	170M3368		350	10000	68500	55	
170M3319	170M3369		400	15000	105000	60	
170M3320	170M3370		450	21000	140000	65	
170M3321	170M3371		500	27000	180000	70	
170M4308	170M4358		1	200	1650	11500	45
170M4309	170M4359			250	3100	21000	55
170M4310	170M4360	315		6200	42000	58	
170M4311	170M4361	350		8500	59000	60	
170M4312	170M4362	400		13500	91500	65	
170M4313	170M4363	450		17000	120000	70	
170M4314	170M4364	500		25000	170000	72	
170M4315	170M4365	550		34000	230000	75	
170M4316	170M4366	630		52000	350000	80	
170M4317	170M4367	700		69500	465000	85	
170M4318	170M4368	800	105000	725000	95		
170M5308	170M5358	2	400	11000	74000	65	
170M5309	170M5359		450	15500	105000	70	
170M5310	170M5360		500	21500	145000	75	
170M5311	170M5361		550	28000	190000	80	
170M5312	170M5362		630	41000	275000	90	
170M5313	170M5363		700	60500	405000	95	
170M5314	170M5364		800	86000	575000	105	
170M5315	170M5365		900	125000	840000	110	
170M5316	170M5366		1000	180000	1250000	115	
170M6308	170M6358	3	500	14000	95000	95	
170M6309	170M6359		550	19500	135000	100	
170M6310	170M6360		630	31000	210000	105	
170M6311	170M6361		700	44500	300000	110	
170M6312	170M6362		800	69500	465000	115	
170M6313	170M6363		900	100000	670000	120	
170M6314	170M6364		1000	140000	945000	125	
170M6315	170M6365		1100	190000	1300000	130	
170M6316	170M6366		1250	290000	1950000	140	
170M6317	170M6367		1400	370000	2450000	155	
170M6318	170M6368	1500	460000	3100000	160		

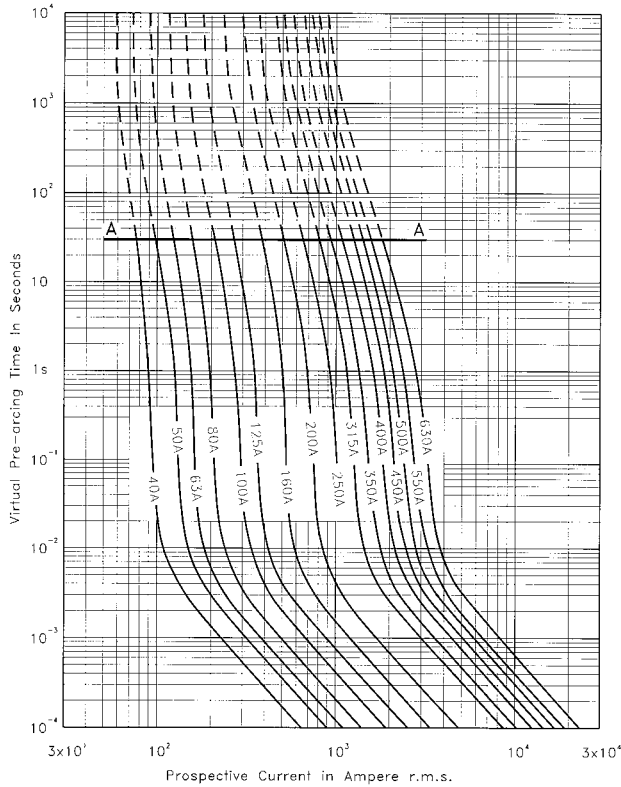
\*Watts loss provided at rated current.

•Microswitch indicator ordered separately. See accessories on pages 179-180.

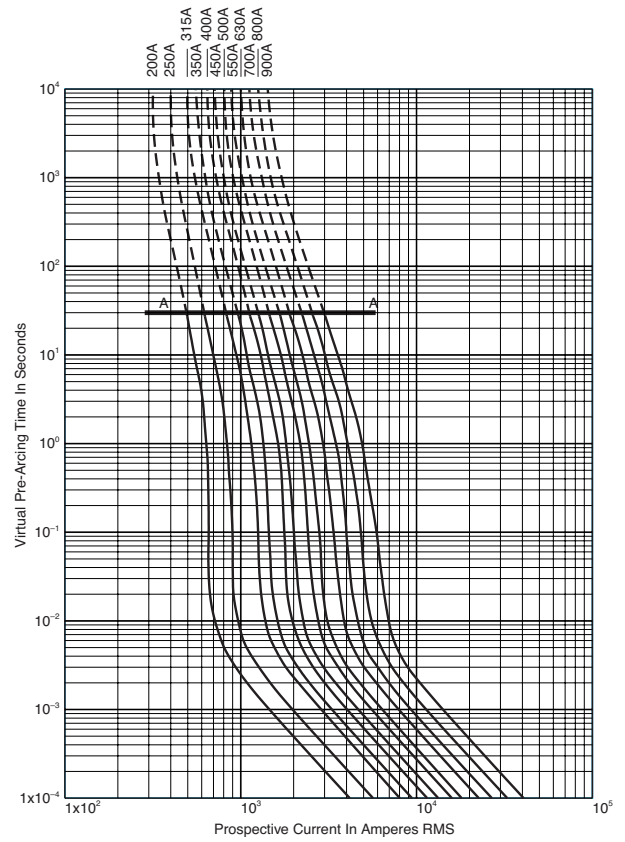
# High Speed Fuses

## Square Body French Style — 690V/700V (IEC/UL): 40-1500A

**Size 1\* — 40-630A: 690V**  
Time-Current Curve

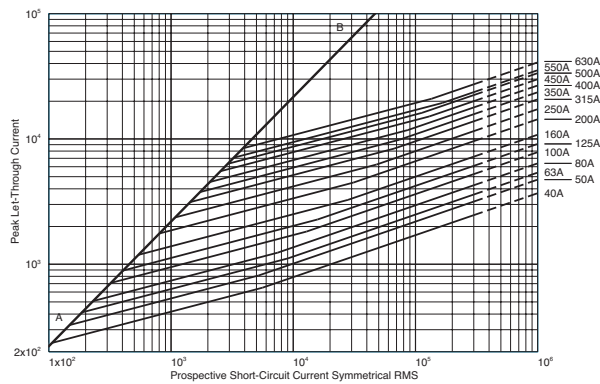


**Size 1 — 200-900A: 690V**  
Time-Current Curve

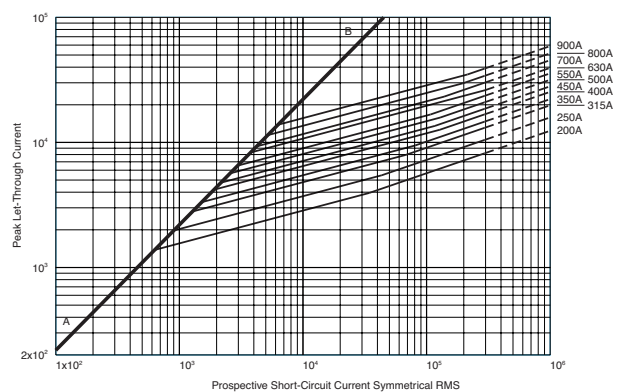


High Speed  
Fuses

**Peak Let-Through Curve**



**Peak Let-Through Curve**

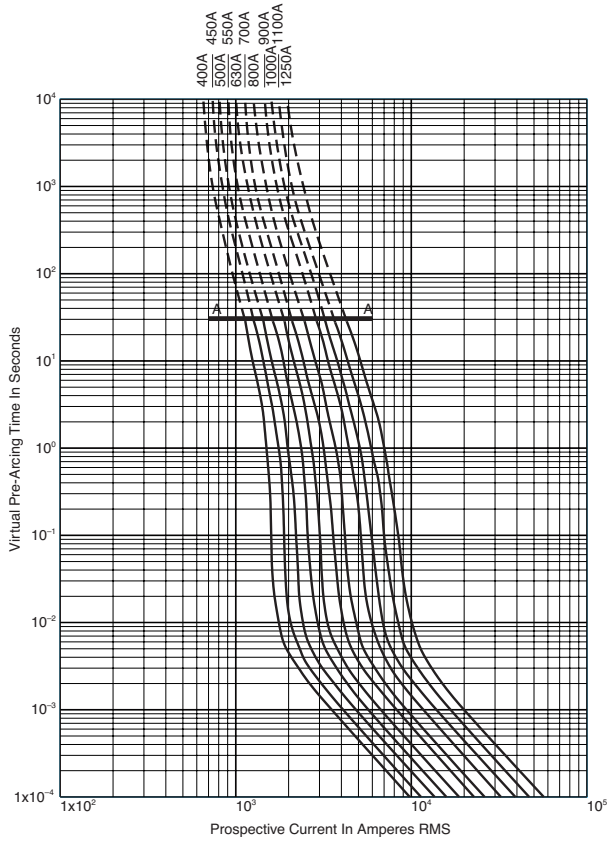


**High Speed Fuses**

**Square Body French Style — 690V/700V (IEC/UL):  
40-1500A**

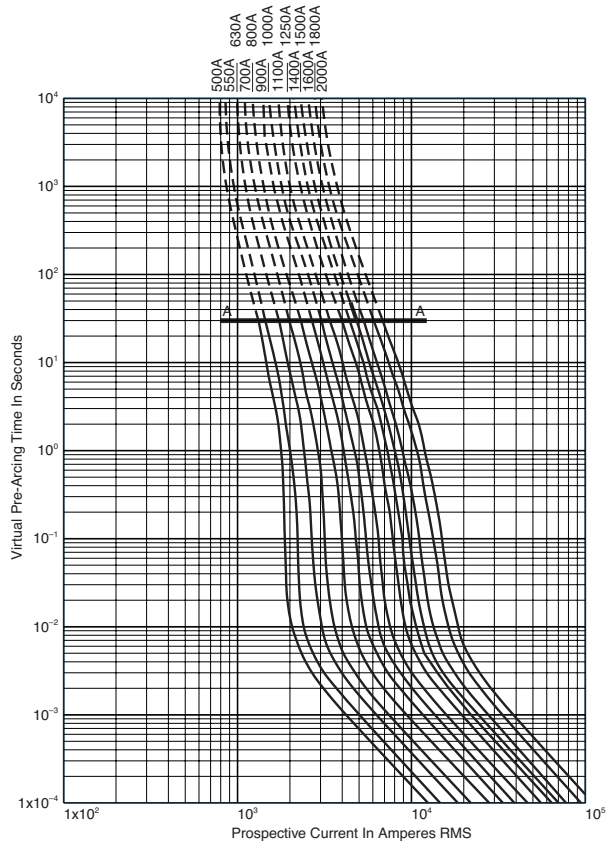
**Size 2 — 400-1250A: 690V**

**Time-Current Curve**

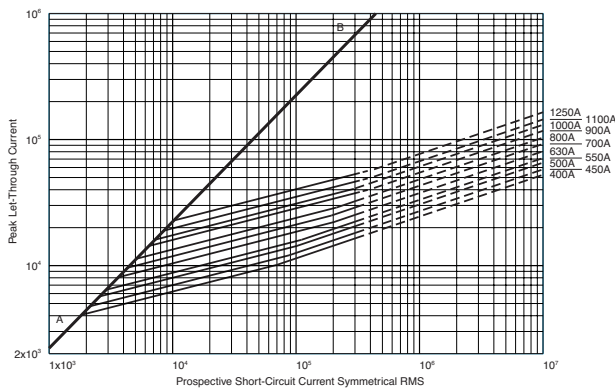


**Size 3 — 500-2000A: 690V**

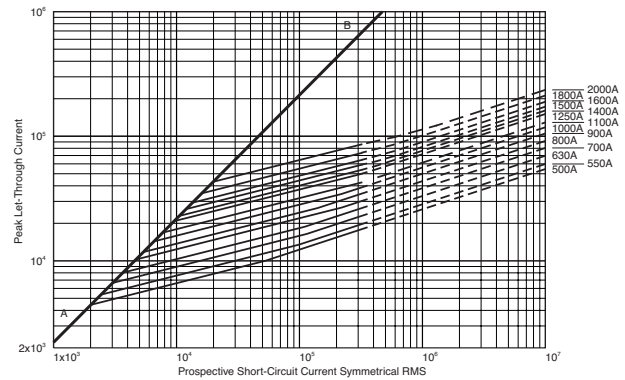
**Time-Current Curve**



**Peak Let-Through Curve**



**Peak Let-Through Curve**



1800A fuse is derated to 600V (IEC).  
2000A fuse is derated to 550V (IEC).

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