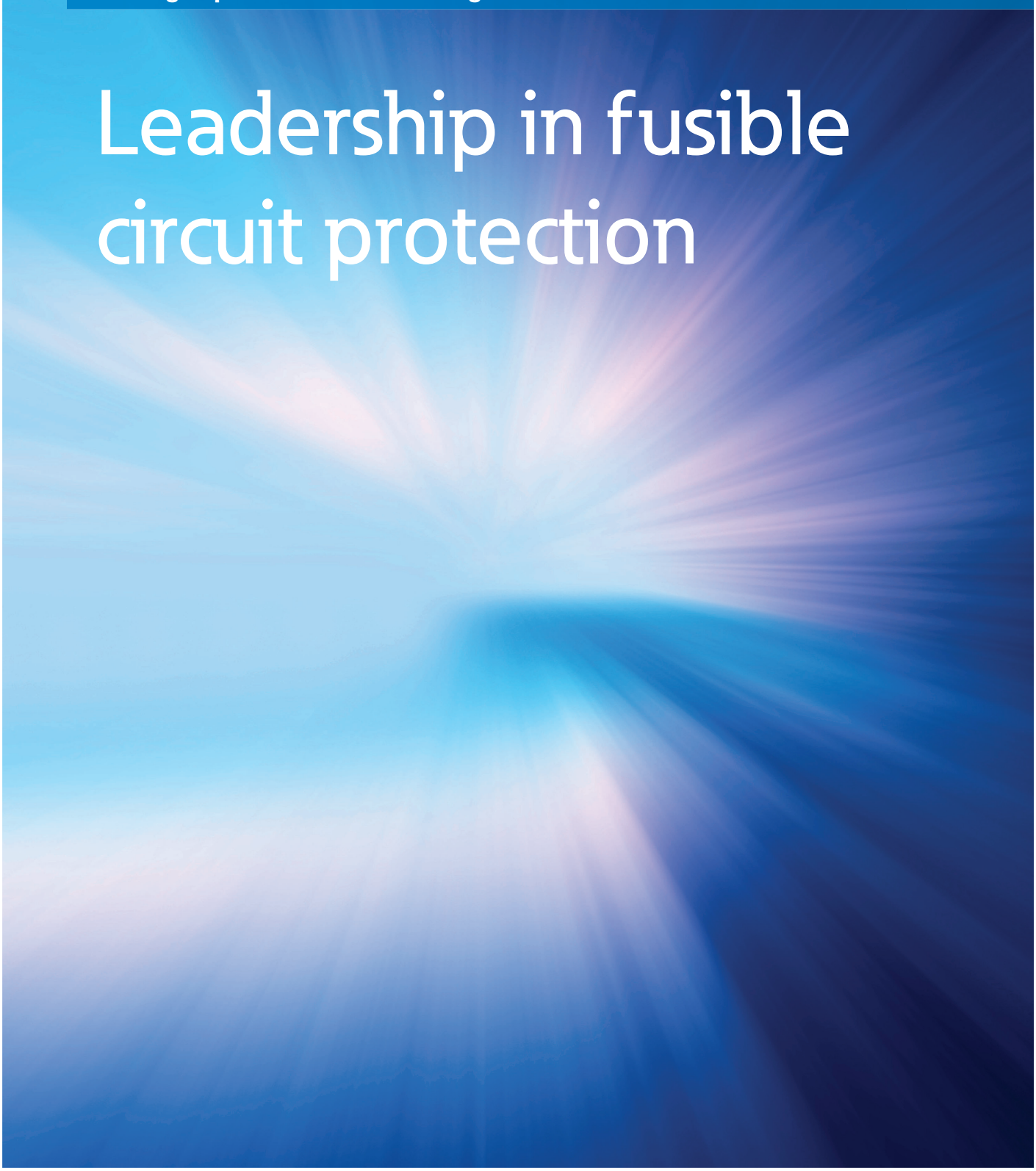
Eaton's Bussmann series
IEC High speed fuse links catalogue

BUSSMANN SERIES

Leadership in fusible circuit protection



EATON
Powering Business Worldwide

Square body fuse links

170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

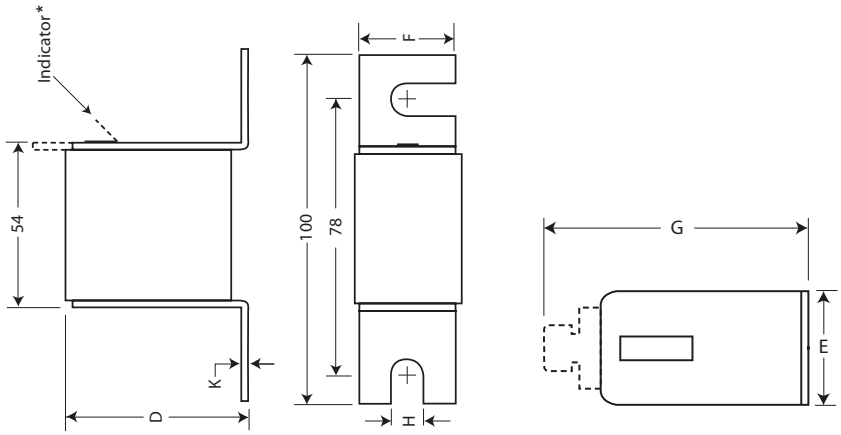
Technical data

- Rated voltage:
  - 690 V a.c. (IEC)
  - 700 V a.c. (UL, size 000; size 00 100 A to 400 A)
  - 700 V d.c. (UL, size 000)
- Rated current: 10 A to 400 A
- Breaking capacity:
  - 200 kA RMS Sym
  - 50 kA at 700 V d.c. (size 000 only)
- Operating class
  - gR - size 000 (10 A to 63 A), size 00 (25 A to 80 A)
  - aR - size 000 (>63 A), size 00 (>80 A)

Standards/Agency Information

CE, Designed and tested to IEC 60269 part 4. UL Recognised/CSA Component Acceptance on Size 000. CCC approved

Dimensions (mm)



* Indication for Size 00 fuses is a red pin.

The dotted line illustrates the Type T indicator fuse link.

Type -U/80, -/80, -TN/80

Size	D	E	F	G	H	K
000	40	21	20	51	8	2
00	51	30	28	67	10	2

Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Catalogue numbers

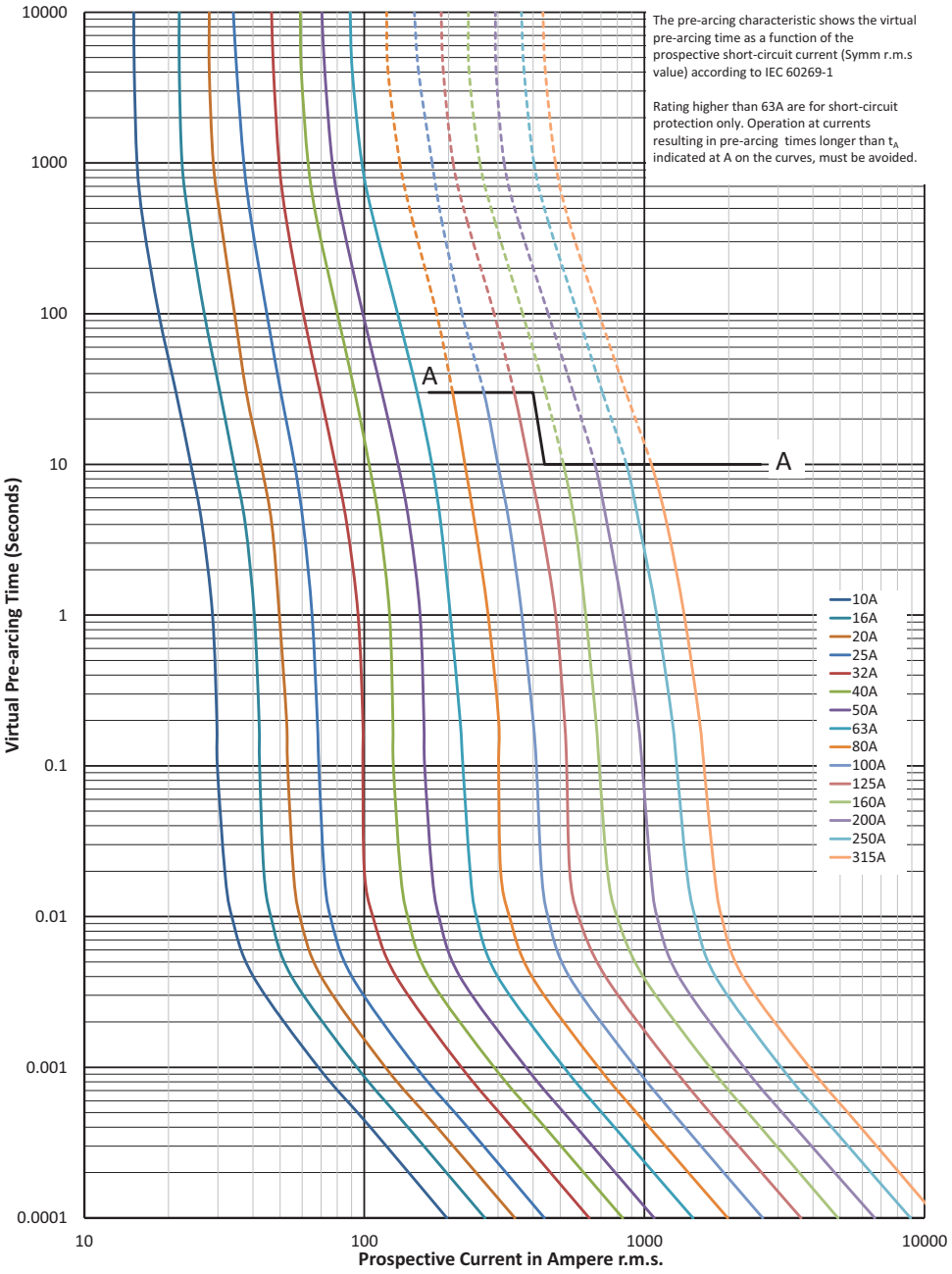
Fuse link body size	Rated voltage	Rated current (Amps)	I²t (A² Sec)		Watts loss (W)	Operating class	Catalogue numbers		
			Pre-Arcing	Clearing at 660 V a.c.			-U/80 Without indicator	-/80 Visual indicator	-TN/80 Type T indicator for micro
000	690 V a.c. (IEC) 700 V a.c. / V d.c. (UL)	10	3.8	25.5	3	gR	170M1308	170M1358	170M1408
		16	7.2	48	5.5		170M1309	170M1359	170M1409
		20	11.5	78	7		170M1310	170M1360	170M1410
		25	19	130	9		170M1311	170M1361	170M1411
		32	40	270	10		170M1312	170M1362	170M1412
		40	69	460	12		170M1313	170M1363	170M1413
		50	115	770	15		170M1314	170M1364	170M1414
		63	215	1450	16		170M1315	170M1365	170M1415
		80	380	2550	19	aR	170M1316	170M1366	170M1416
		100	695	4650	24		170M1317	170M1367	170M1417
		125	1250	8500	28		170M1318	170M1368	170M1418
		160	2350	16,000	32		170M1319	170M1369	170M1419
		200	4200	28,000	37		170M1320	170M1370	170M1420
		250	7750	51,500	42		170M1321	170M1371	170M1421
		315	12,000	80,500	53		170M1322	170M1372	170M1422
00	690 V a.c. (IEC)	25	19	130	6	gR		170M2608	170M2658
		32	28.5	195	7			170M2609	170M2659
		40	50	360	9			170M2610	170M2660
		50	95	640	10			170M2611	170M2661
		63	170	1200	12			170M2612	170M2662
		80	310	2100	15			170M2613	170M2663
00	690 V a.c. (IEC) 700 V a.c. (UL)	100	620	4150	20	aR		170M2614	170M2664
		125	1000	6950	25			170M2615	170M2665
		160	1900	13,000	30			170M2616	170M2666
		200	3400	23,000	35			170M2617	170M2667
		250	6250	42,000	45			170M2618	170M2668
		315	10,000	68,500	55			170M2619	170M2669
		350	13,500	91,500	60			170M2620	170M2670
		400	18,000	125,000	70			170M2621	170M2671

Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

Square body fuse links

170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Time-current curve - Size 000 - 10 A to 315 A

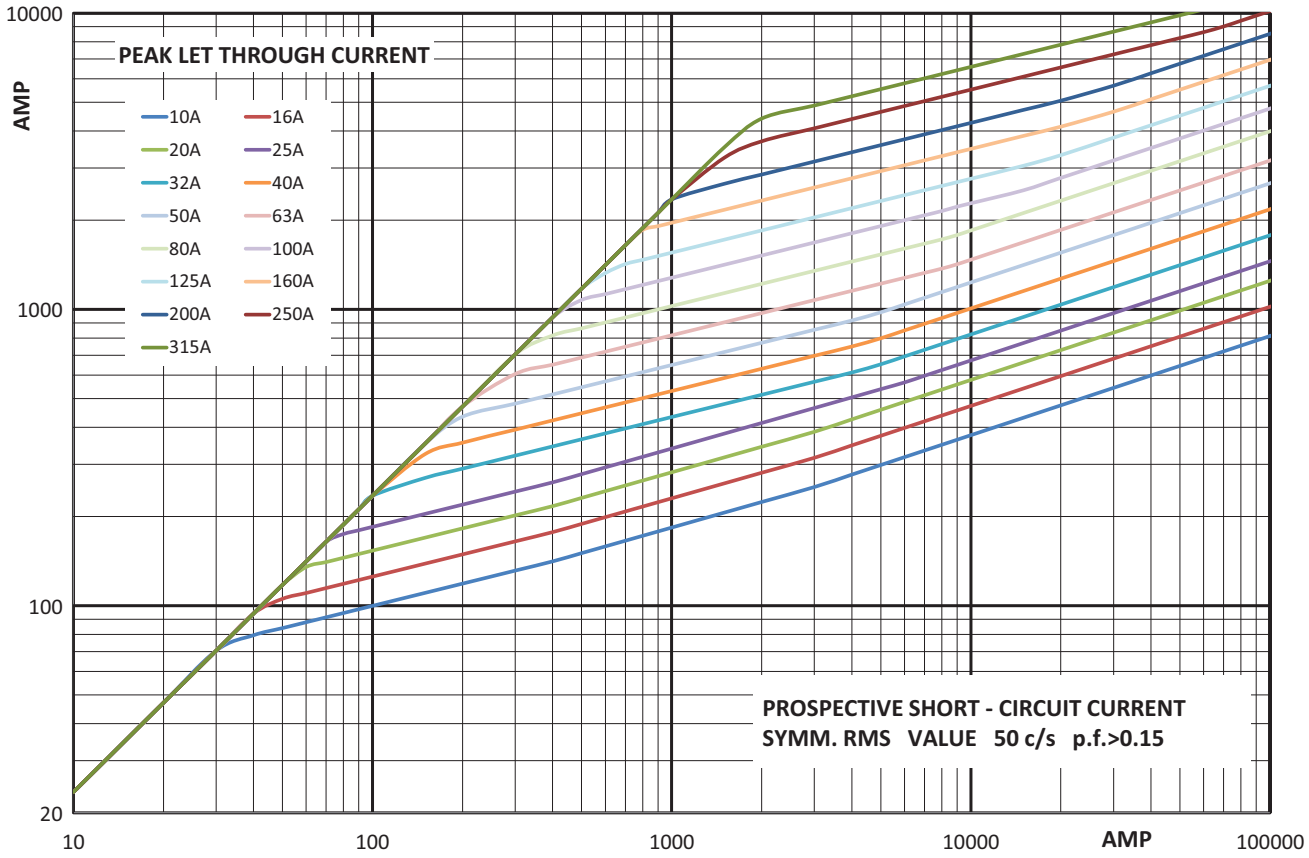


K_b = 1 N = 1.6

Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

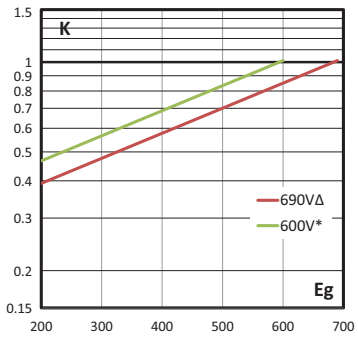
170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Cut-off curve - Size 000 - 10 A to 315 A



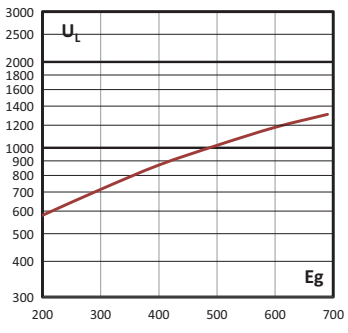
Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).



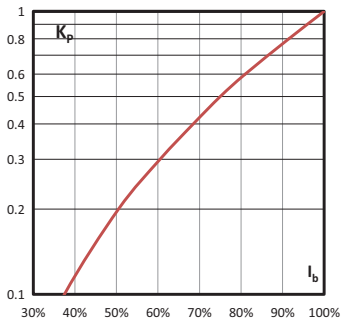
Arc voltage

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 percent.



Watts losses

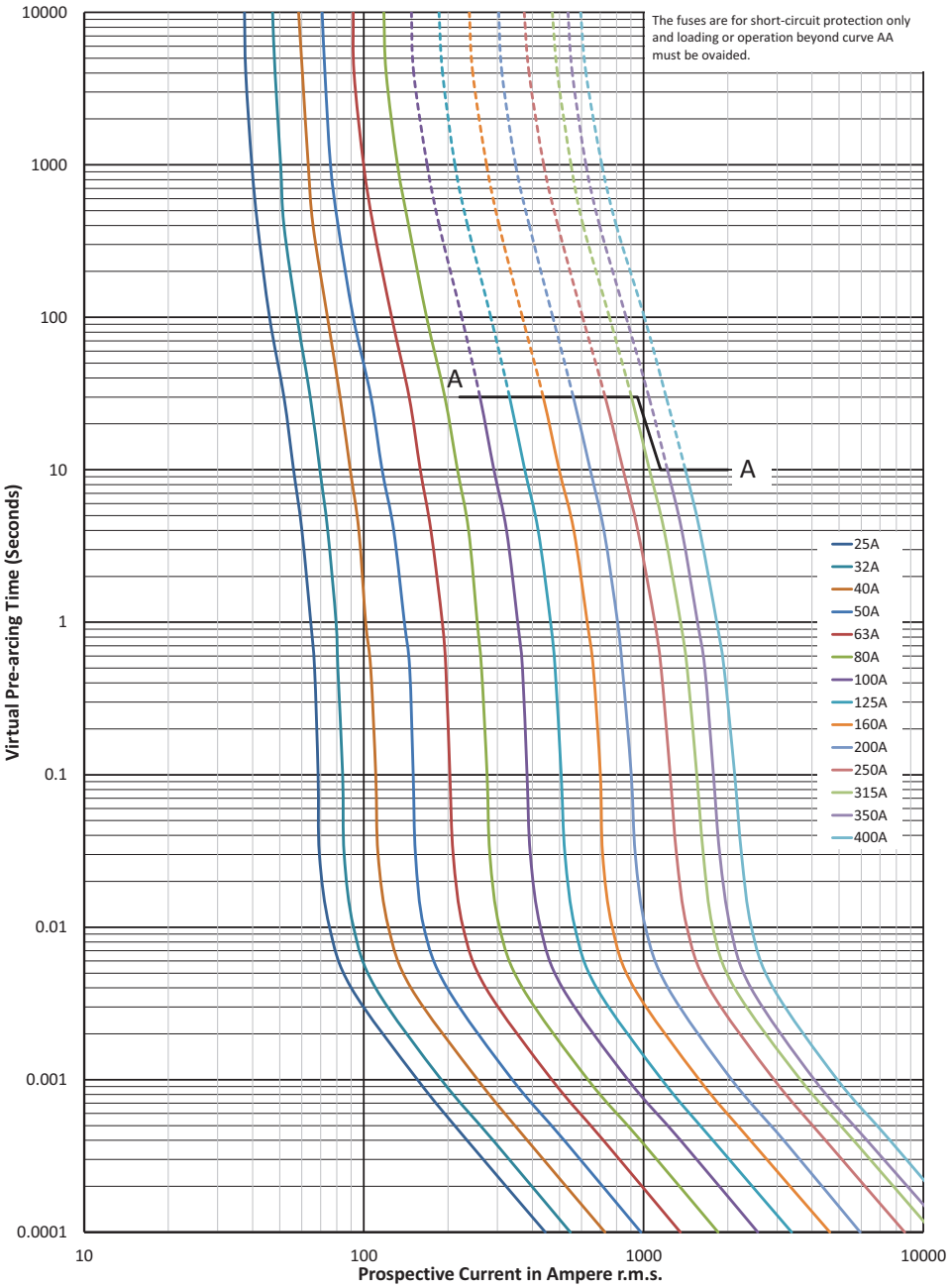
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Time-current curve - Size 00, 25 A to 400 A

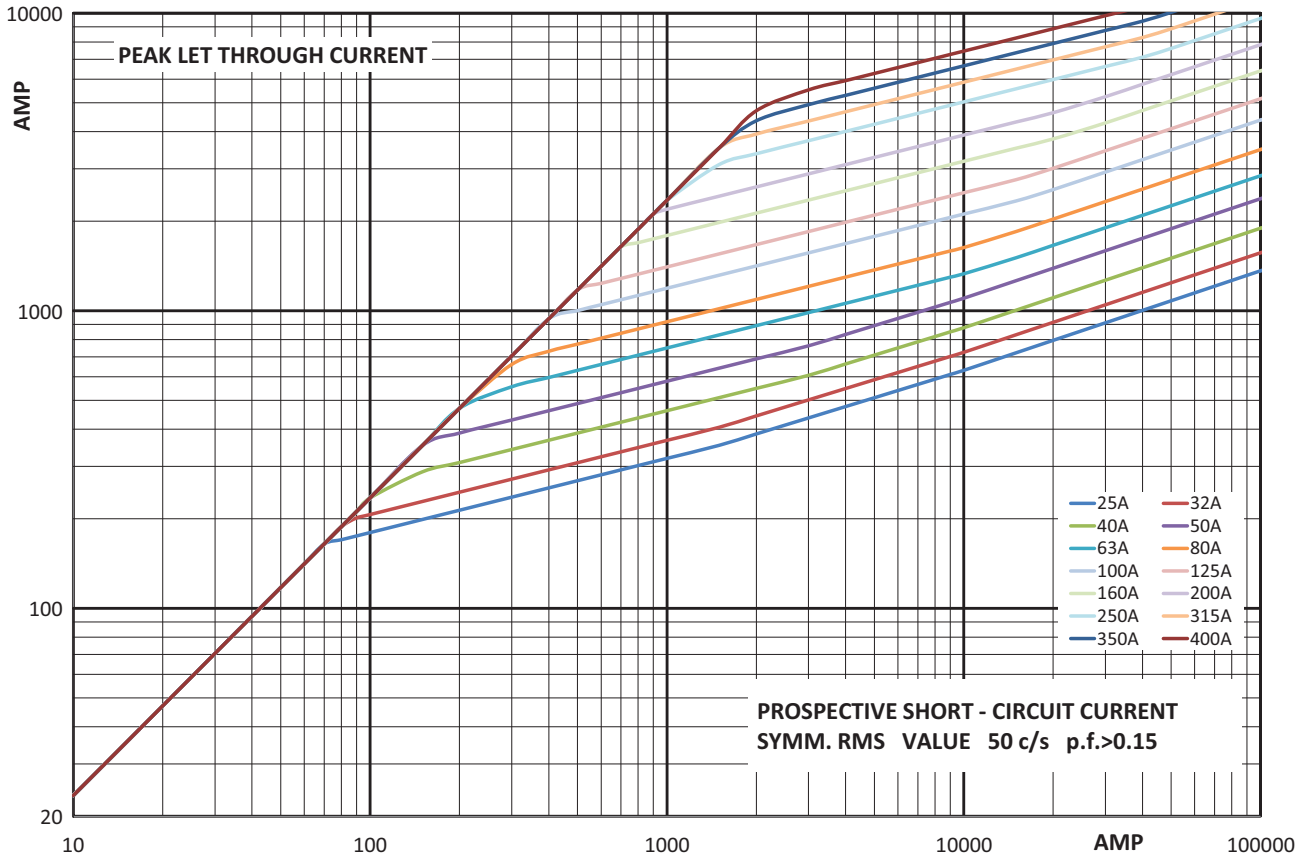


K_b = 1 N = 1.5

Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

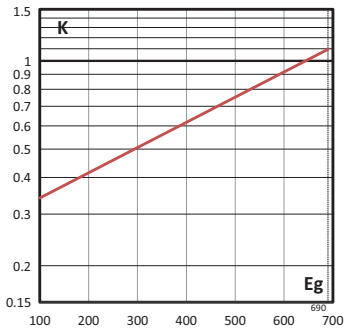
170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Cut-off curve- Size 00 , 25 A to 400 A



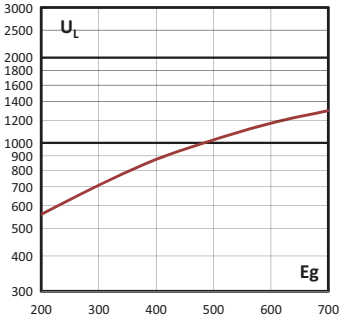
Total clearing I²t

The total clearing I²t at rated voltage and at a power factor of 15 percent 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).



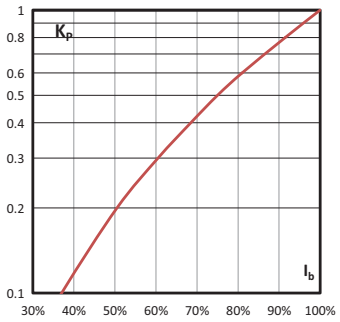
Arc voltage

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 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts 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 percent of the rated current.



Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

Square body fuse links

170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

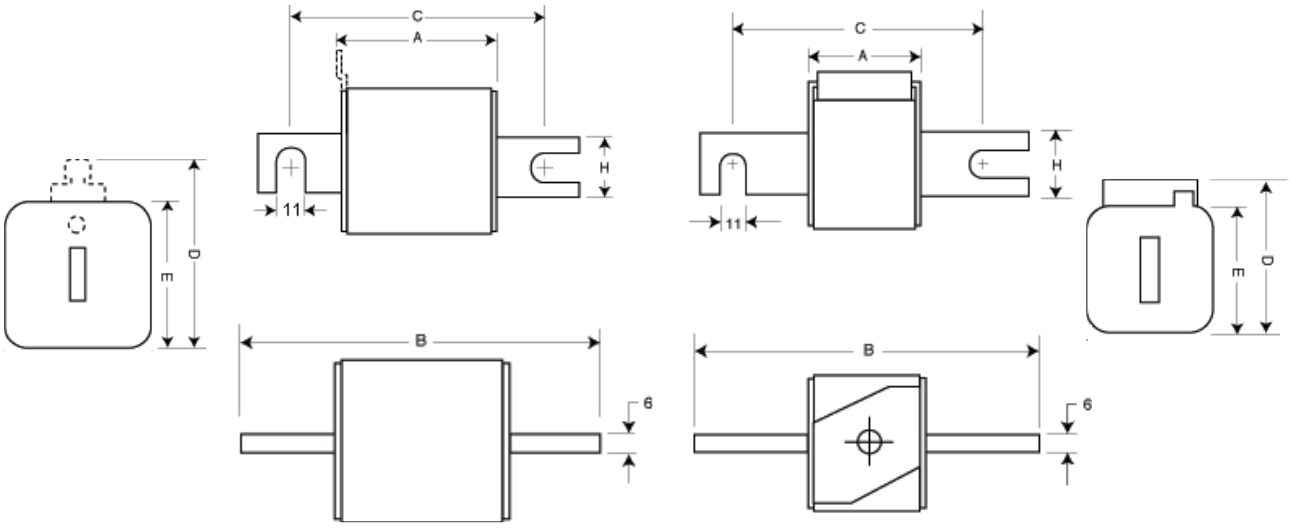
Technical data

- Rated voltage:
  - 690 V a.c. (IEC)
  - 700 V a.c. (UL)
- Rated current: 40 A to 2000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC60269 Part 4. Consult Eaton for UL Recognition/CSA Component Acceptance status. CCC except where noted.

Dimensions (mm)



Type -/80, -TN/80, -/110, -TN/110

Size	A	B	B[1]	C	C[1]	D[2]	E	H
1*	50	104	134	78	108	58	45	22
1	50	108	138	78	108	66	53	25
2	50	108	138	78	108	75	61	25
3	51	109	139	78	108	90	76	30

Type -KN/80, -KN/110

Size	A	B	B[3]	C	C[3]	D	E	H
1*	50	104	134	78	108	59	45	22
1	50	108	138	78	108	69	53	25
2	50	108	138	78	108	77	61	25
3	51	109	139	78	108	92	76	30

[1] Valid for fuse links type -/110, -TN/110.
[2] Valid for Fuse type -TN/80 and -TN/110.

[3] Valid for fuse links type -KN/110.
1mm = 0.0394"

1mm = 0.0394"

Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Catalogue numbers

Fuse link body size	Rated voltage	Rated current (Amps)	I²t (A² Sec) Pre-arcing	I²t (A² Sec) Clearing at 660 V a.c.	Watts loss (W)	Catalogue numbers -/80 Visual indicator	-TN/80 Type T indicator for micro	-KN/80 Type K indicator for micro	-/110 Visual indicator	-TN/110 Type T indicator for micro	-KN/110 Type K indicator for micro
1*	690 V a.c. (IEC) 700 V a.c. (UL)	40	40	270	9	170M3008	170M3058	170M3108	170M3158	170M3208	170M3258
		50	77	515	11	170M3009	170M3059	170M3109	170M3159	170M3209	170M3259
		63	115	770	14	170M3010	170M3060	170M3110	170M3160	170M3210	170M3260
		80	185	1250	18	170M3011	170M3061	170M3111	170M3161	170M3211	170M3261
		100	360	2450	21	170M3012	170M3062	170M3112	170M3162	170M3212	170M3262
		125	550	3700	26	170M3013	170M3063	170M3113	170M3163	170M3213	170M3263
		160	1100	7500	30	170M3014	170M3064	170M3114	170M3164	170M3214	170M3264
		200	2200	15,000	35	170M3015	170M3065	170M3115	170M3165	170M3215	170M3265
		250	4200	28,500	40	170M3016	170M3066	170M3116	170M3166	170M3216	170M3266
		315	7000	46,500	50	170M3017	170M3067	170M3117	170M3167	170M3217	170M3267
		350	10,000	68,500	55	170M3018	170M3068	170M3118	170M3168	170M3218	170M3268
		400	15,000	105,000	60	170M3019	170M3069	170M3119	170M3169	170M3219	170M3269
		450	21,000	140,000	65	170M3020	170M3070	170M3120	170M3170	170M3220	170M3270
		500	27,000	180,000	70	170M3021	170M3071	170M3121	170M3171	170M3221	170M3271
		550	34,000	230,000	75	170M3022	170M3072	170M3122	170M3172	170M3222	170M3272
		630	48,500	325,000	80	170M3023	170M3073	170M3123	170M3173	170M3223	170M3273
1	690 V a.c. (IEC) 700 V a.c. (UL)	200	1650	11,500	45	170M4008	170M4058	170M4108	170M4158	170M4208	170M4258
		250	3100	21,000	55	170M4009	170M4059	170M4109	170M4159	170M4209	170M4259
		315	6200	42,000	58	170M4010	170M4060	170M4110	170M4160	170M4210	170M4260
		350	8500	59,000	60	170M4011	170M4061	170M4111	170M4161	170M4211	170M4261
		400	13,500	91,500	65	170M4012	170M4062	170M4112	170M4162	170M4212	170M4262
		450	17,000	120,000	70	170M4013	170M4063	170M4113	170M4163	170M4213	170M4263
		500	25,000	170,000	72	170M4014	170M4064	170M4114	170M4164	170M4214	170M4264
		550	34,000	230,000	75	170M4015	170M4065	170M4115	170M4165	170M4215	170M4265
		630	52,000	350,000	80	170M4016	170M4066	170M4116	170M4166	170M4216	170M4266
		700	69,500	465,000	85	170M4017	170M4067	170M4117	170M4167	170M4217	170M4267
		800	105,000	725,000	95	170M4018	170M4068	170M4118	170M4168	170M4218	170M4268
	550 V a.c. IEC	900	155,000	850,000	100	170M4019[1]	170M4069[1]	170M4119[1]	170M4169[1]	170M4219[1]	170M4269[1]
2	690 V a.c. (IEC) 700 V a.c. (UL)	400	11,000	74,000	65	170M5008	170M5058	170M5108	170M5158	170M5208	170M5258
		450	15,500	105,000	70	170M5009	170M5059	170M5109	170M5159	170M5209	170M5259
		500	21,500	145,000	75	170M5010	170M5060	170M5110	170M5160	170M5210	170M5260
		550	28,000	190,000	80	170M5011	170M5061	170M5111	170M5161	170M5211	170M5261
		630	41,000	275,000	90	170M5012	170M5062	170M5112	170M5162	170M5212	170M5262
		700	60,500	405,000	95	170M5013	170M5063	170M5113	170M5163	170M5213	170M5263
		800	86,000	575,000	105	170M5014	170M5064	170M5114	170M5164	170M5214	170M5264
		900	125,000	840,000	110	170M5015	170M5065	170M5115	170M5165	170M5215	170M5265
		1000	180,000	1,250,000	115	170M5016	170M5066	170M5116	170M5166	170M5216	170M5266
	600 V a.c. (IEC) / 700 V a.c. UL	1100	245,000	1,600,000	120	170M5017	170M5067	170M5117	170M5167	170M5217	170M5267
		1250	365,000	2,400,000	130	170M5018	170M5068	170M5118	170M5168	170M5218	170M5268
3	690 V a.c. (IEC) 700 V a.c. (UL)	500	14,000	95,000	95	170M6008	170M6058	170M6108	170M6158	170M6208	170M6258
		550	19,500	135,000	100	170M6009	170M6059	170M6109	170M6159	170M6209	170M6259
		630	31,000	210,000	105	170M6010	170M6060	170M6110	170M6160	170M6210	170M6260
		700	44,500	300,000	110	170M6011	170M6061	170M6111	170M6161	170M6211	170M6261
		800	69,500	465,000	115	170M6012	170M6062	170M6112	170M6162	170M6212	170M6262
		900	100,000	670,000	120	170M6013	170M6063	170M6113	170M6163	170M6213	170M6263
		1000	140,000	945,000	125	170M6014	170M6064	170M6114	170M6164	170M6214	170M6264
		1100	190,000	1,300,000	130	170M6015	170M6065	170M6115	170M6165	170M6215	170M6265
		1250	290,000	1,950,000	140	170M6016	170M6066	170M6116	170M6166	170M6216	170M6266
		1400	370,000	2,450,000	155	170M6017	170M6067	170M6117	170M6167	170M6217	170M6267
		1500	460,000	3,100,000	160	170M6018	170M6068	170M6118	170M6168	170M6218	170M6268
		1600	580,000	3,900,000	160	170M6019	170M6069	170M6119	170M6169	170M6219	170M6269
	600 V a.c. IEC / 550 V a.c. UL	1800	880,000	5,250,000	165	170M6020[2]	170M6070[2]	170M6120	170M6170[2]	170M6220[2]	170M6270
	550 V a.c. IEC/UL	2000	1,150,000	6,350,000	175	170M6021	170M6071	170M6121	170M6171	170M6221	170M6271

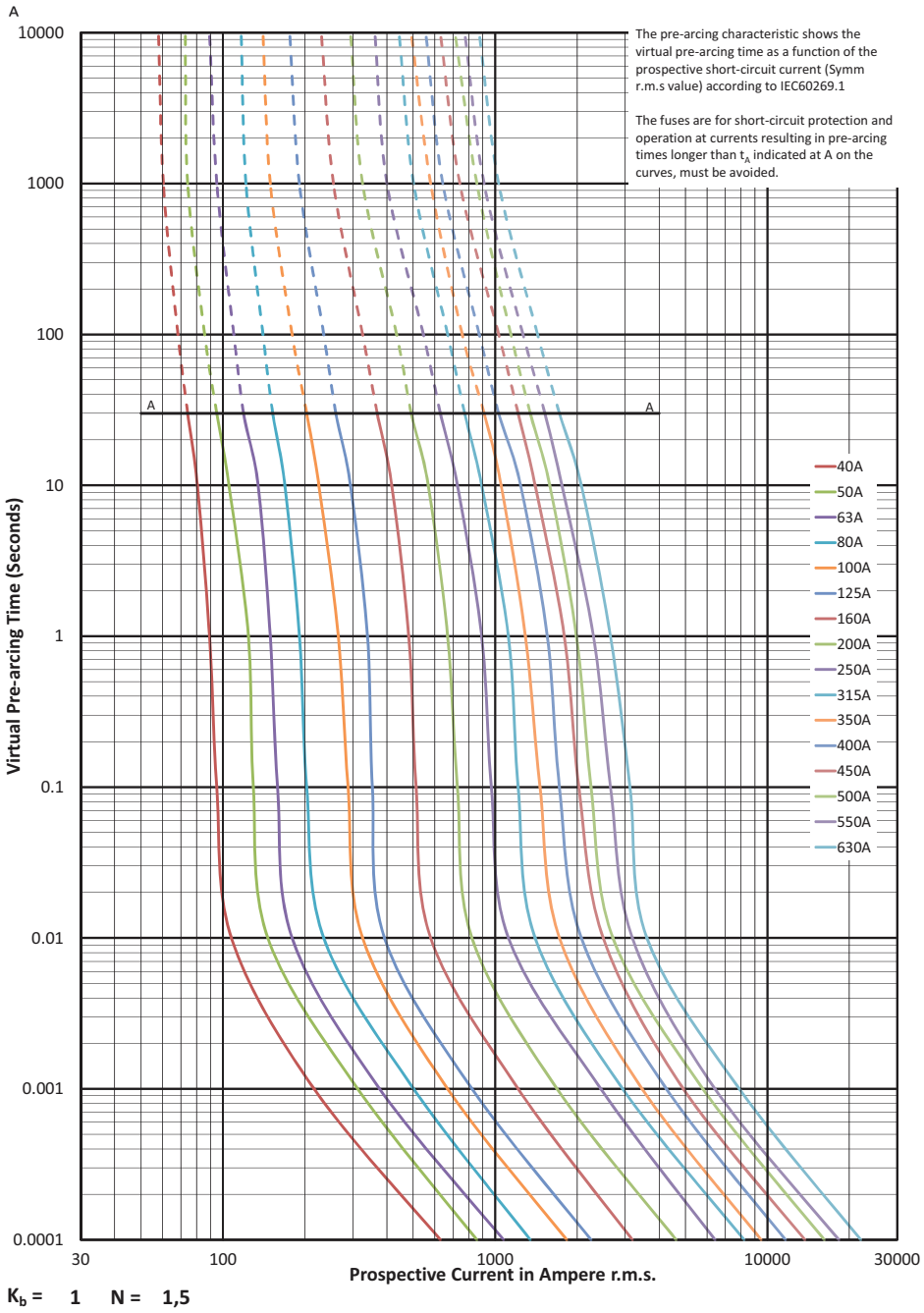
Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

[1] Not UL Approved IEC

[2] Rated at 750 V d.c. 12XIn 130 kA when two fuses connected in series

170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 1*, 40 A to 630 A

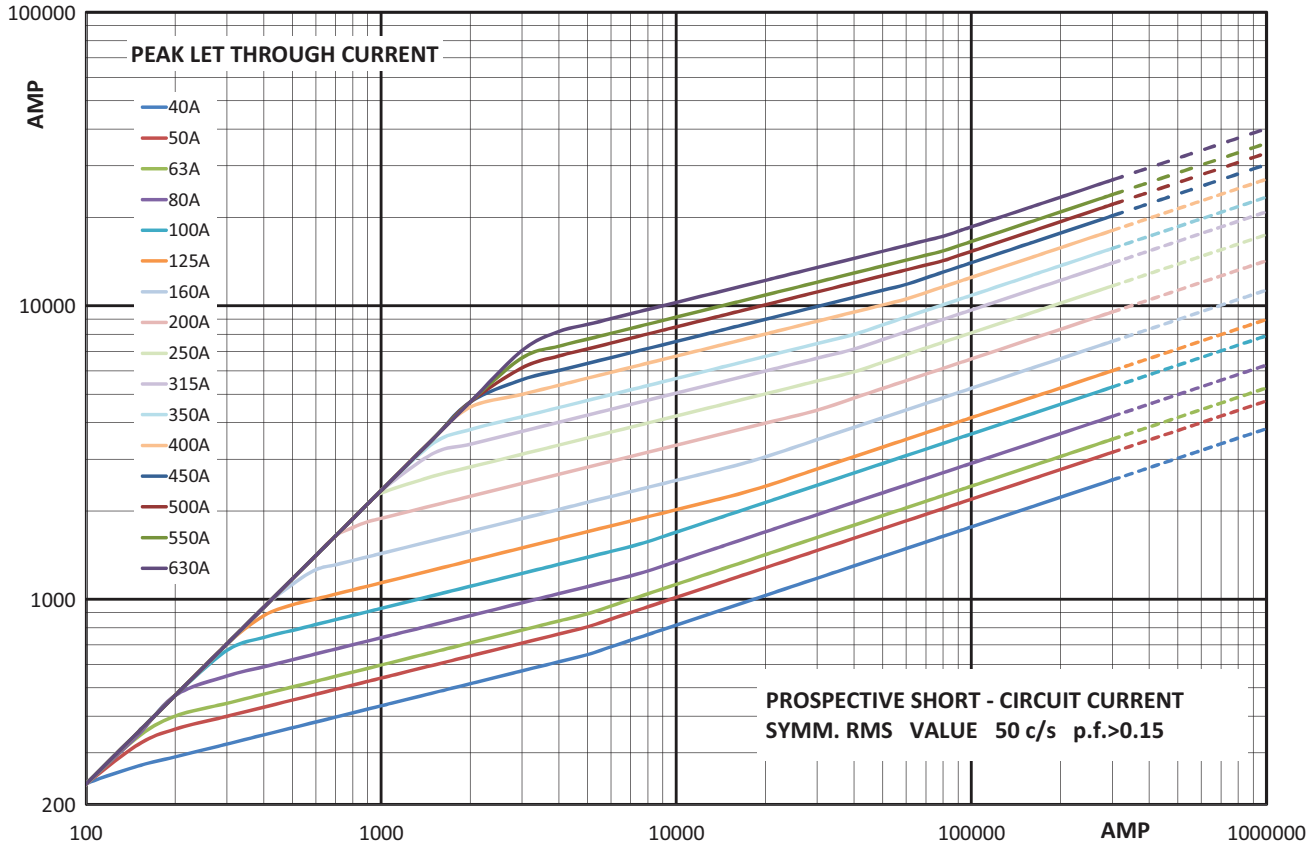


K_b = 1 N = 1,5

Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

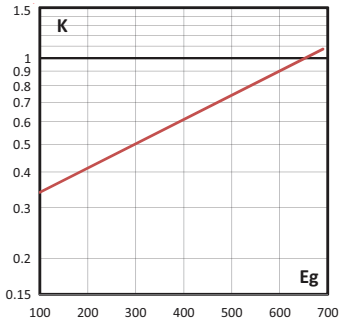
170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Cut-off curve - Size 1*, 40 A to 630 A



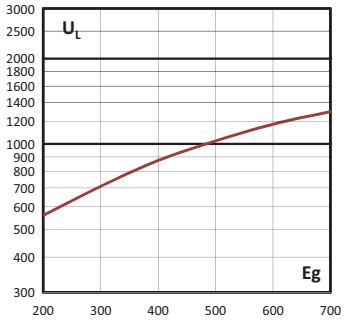
Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).



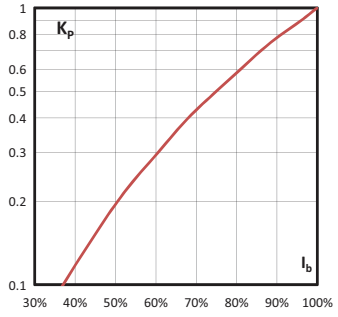
Arc voltage

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 percent.



Watts losses

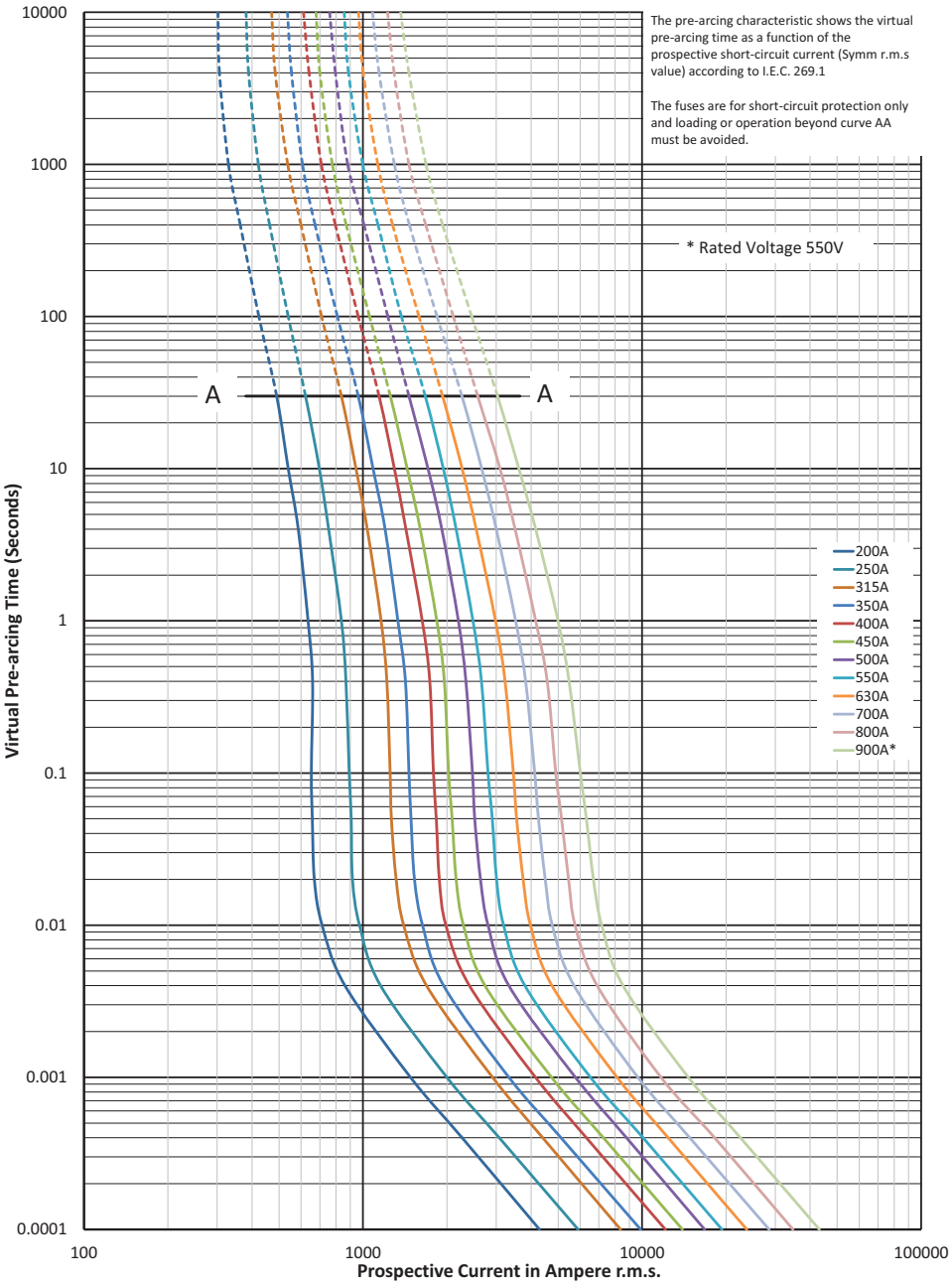
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 1, 200 A to 900 A

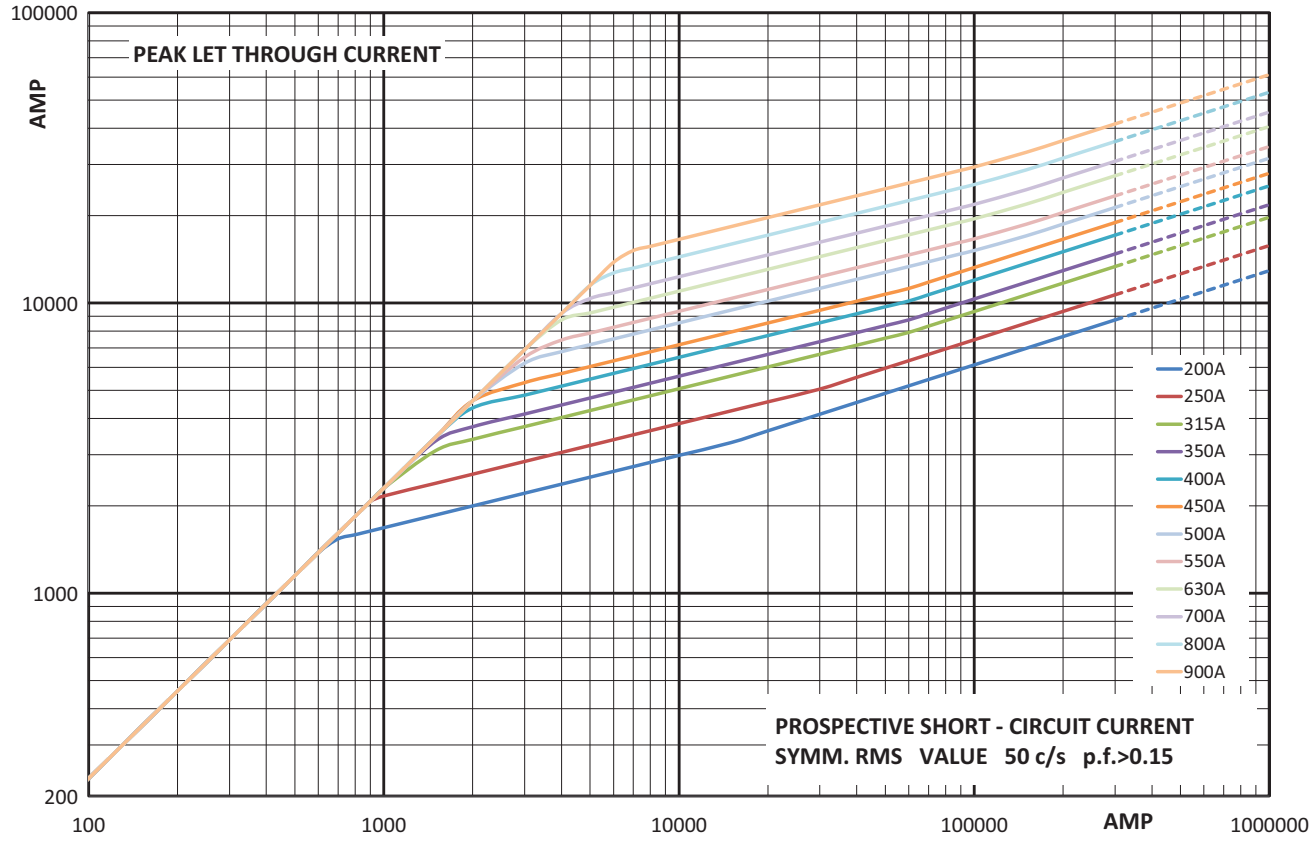


K_b = 1 N = 1.5

Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

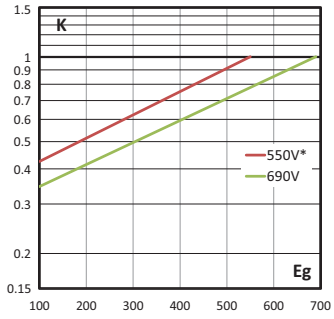
170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Cut-off curve - Size 1, 200 A to 900 A



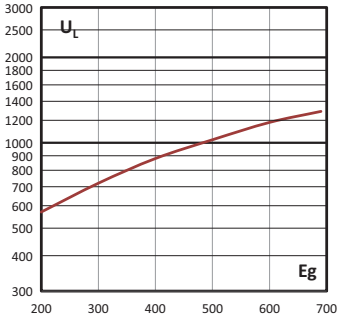
Total clearing I²t

The total clearing I²t at rated voltage and at a power factor of 15 percent 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).



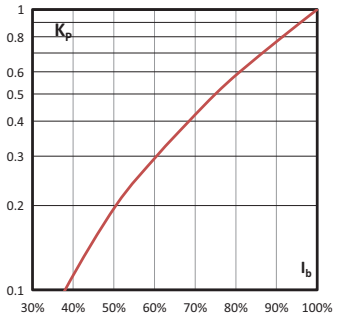
Arc voltage

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 percent.



Watts losses

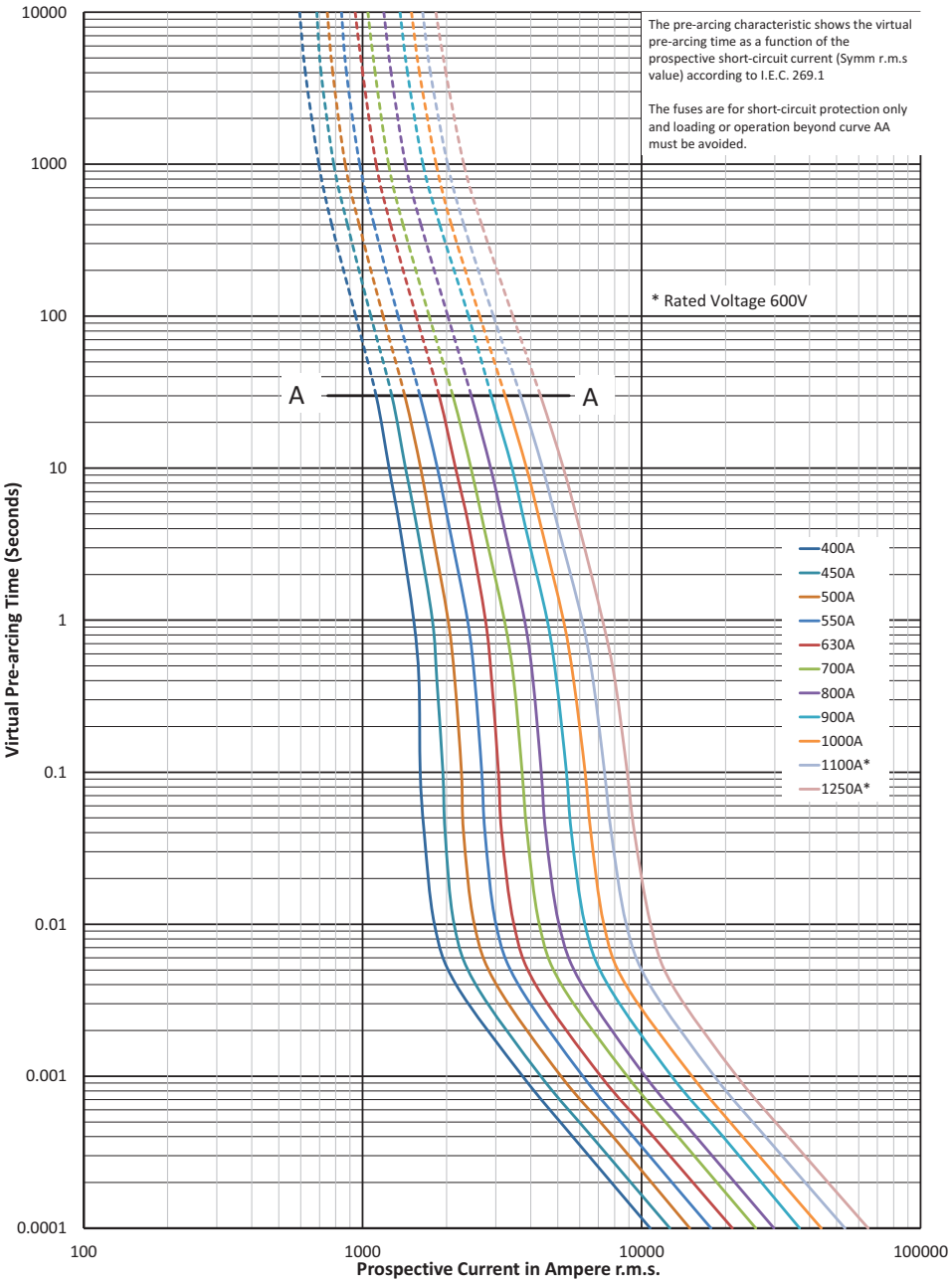
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 2, 400 A to 1250 A

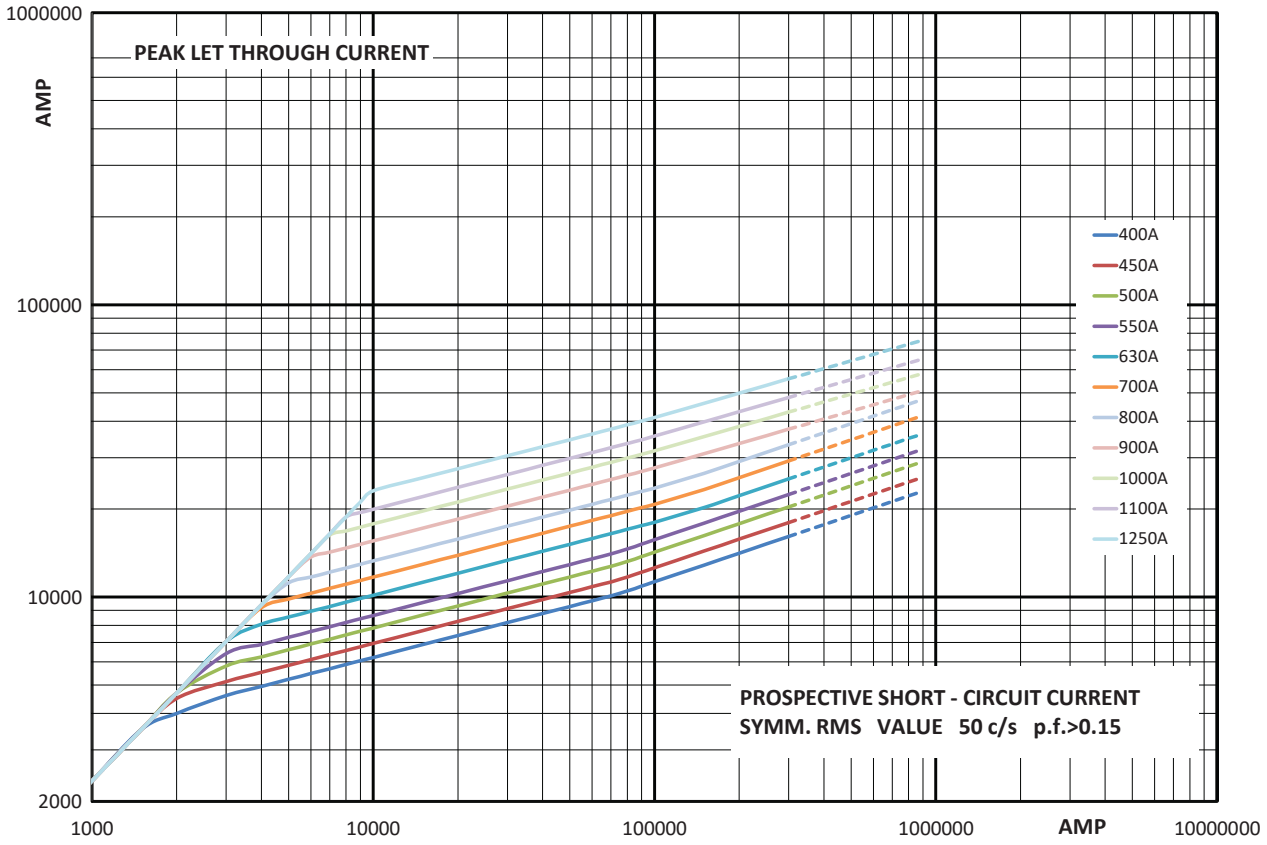


K_b = 1 N = 1.5

Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

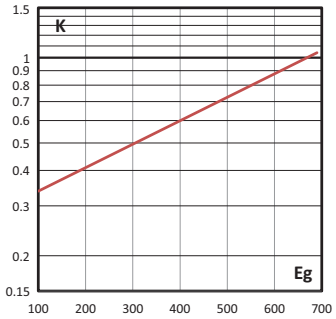
170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Cut-off curve - Size 2, 400 A to 1250 A



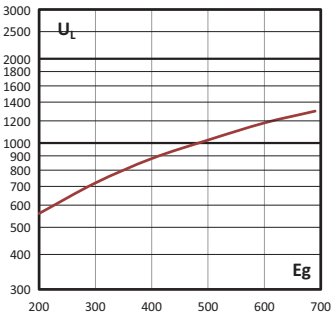
Total clearing I²t

The total clearing I²t at rated voltage and at a power factor of 15 percent 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).



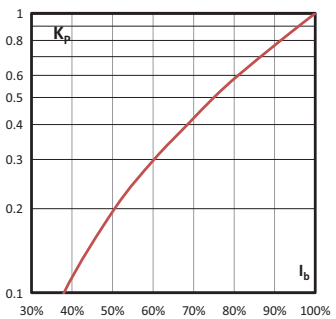
Arc voltage

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 percent.



Watts losses

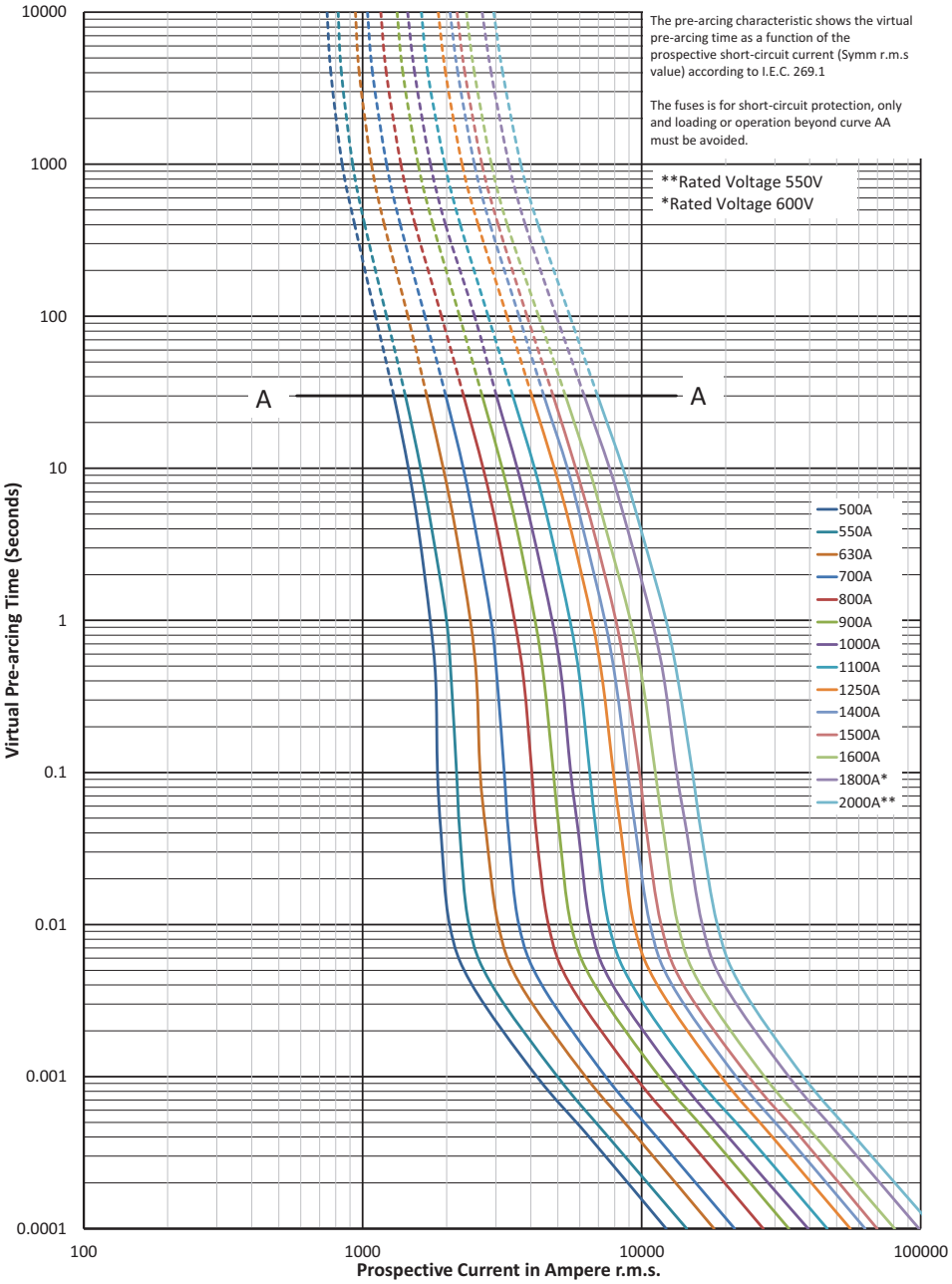
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve -Size 3, 500 A to 2000 A

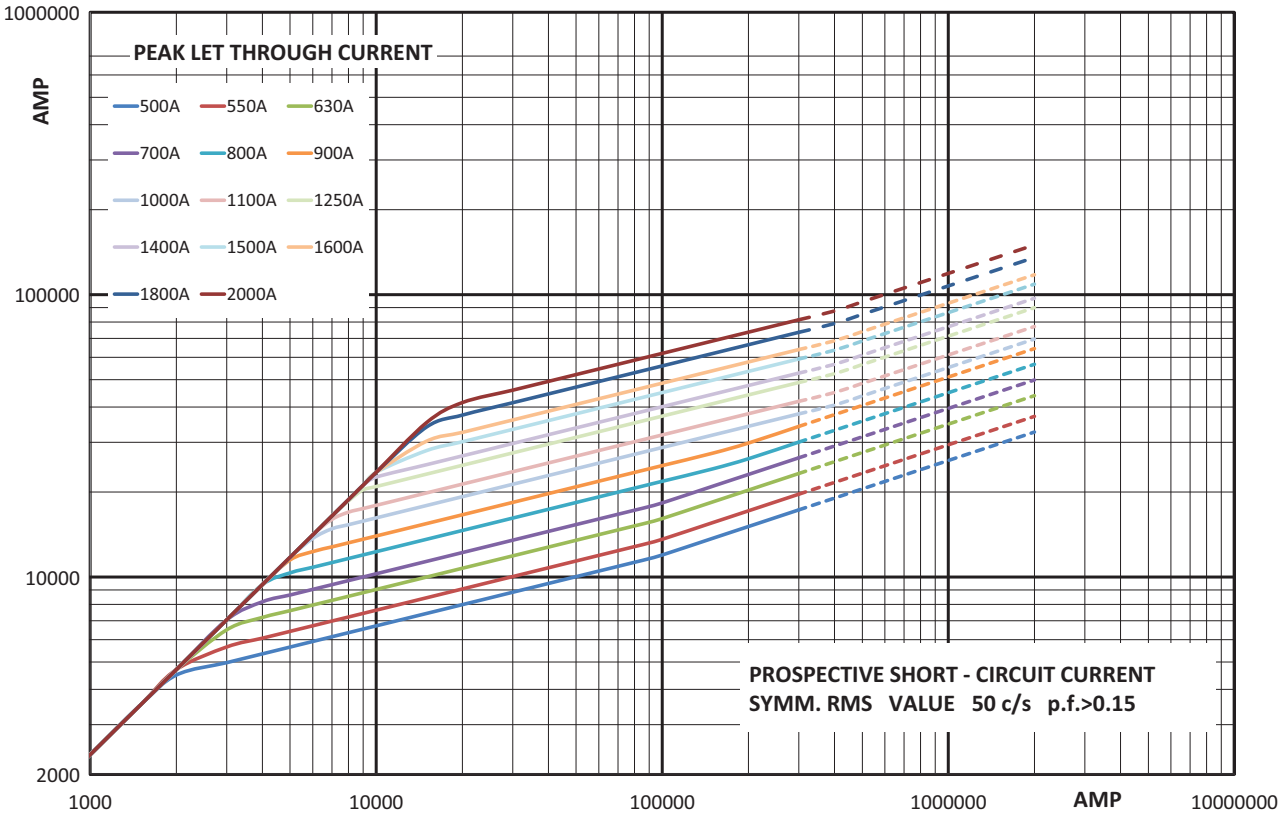


K_b = 1 N = 1.5

Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

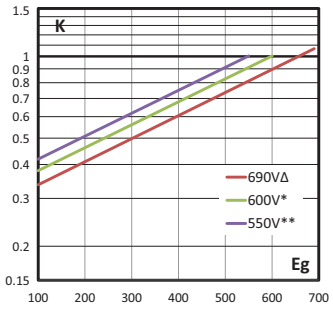
170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Cut-off curve - Size 3, 500 A to 2000 A



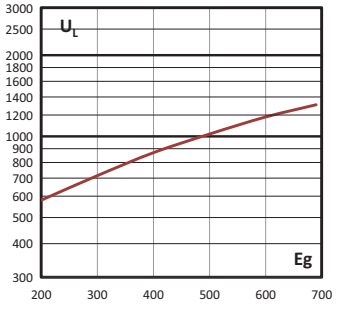
Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).



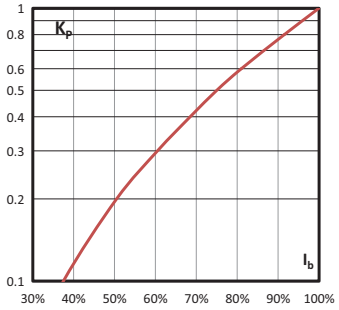
Arc voltage

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 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts 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 percent of the rated current.



Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

Square body fuse links

170M - Size 00, DIN 43653, 1000 V a.c. (IEC and UL), 20 A to 315A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
  - 1000 V a.c. (IEC and UL 20 A to 250 A)
  - 900 V a.c. (IEC, 315 A)
- Rated current: 20 A to 315 A
- Breaking capacity: 125 kA RMS Sym
- Operating class: aR

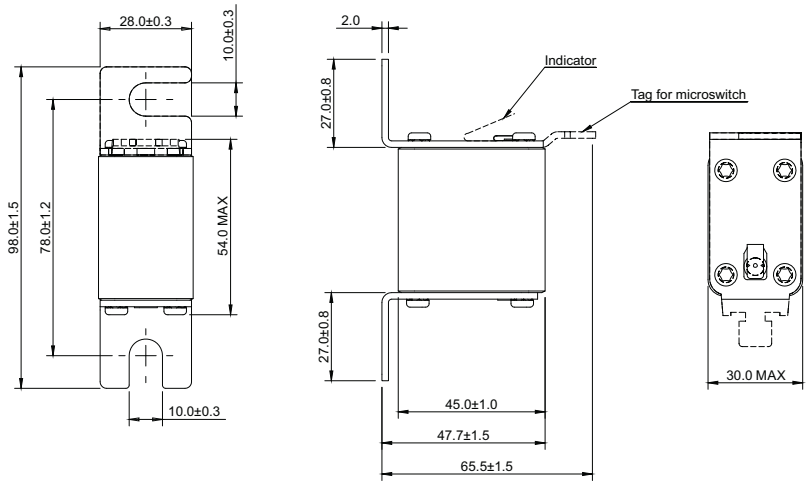
Standards / Agency information

CE, Designed and tested to IEC60269 Part 4, UL Recognised/CSA component acceptance status (20-250 A)

Catalogue numbers

			I^2t (A^2 Sec)			Catalogue numbers	
Fuse link body size	**Rated voltage**	**Rated current (Amps)**	**Pre-arcing**	**Clearing at rated voltage**	**Watts loss (W)**	**00/80 Visual indicator**	**00TN/80 Type T indicator for micro**
00	1000 V a.c. (IEC/UL)	20	20	140	5	170M4802	170M4822
		25	30	210	7	170M4803	170M4823
		32	55	390	9	170M4804	170M4824
		35	69	500	10	170M4805	170M4825
		40	100	690	11	170M4806	170M4826
		50	170	1200	13	170M4807	170M4827
		63	280	2000	18	170M4808	170M4828
		80	500	3500	22	170M4809	170M4829
		100	950	6850	25	170M4810	170M4830
		125	1500	11,500	33	170M4811	170M4831
		160	3000	22,000	37	170M4812	170M4832
		200	5600	40,500	40	170M4813	170M4833
		250	10,000	74,000	48	170M4814	170M4834
	900 V a.c. (IEC)	315	18,000	115,000	58	170M4815	170M4835

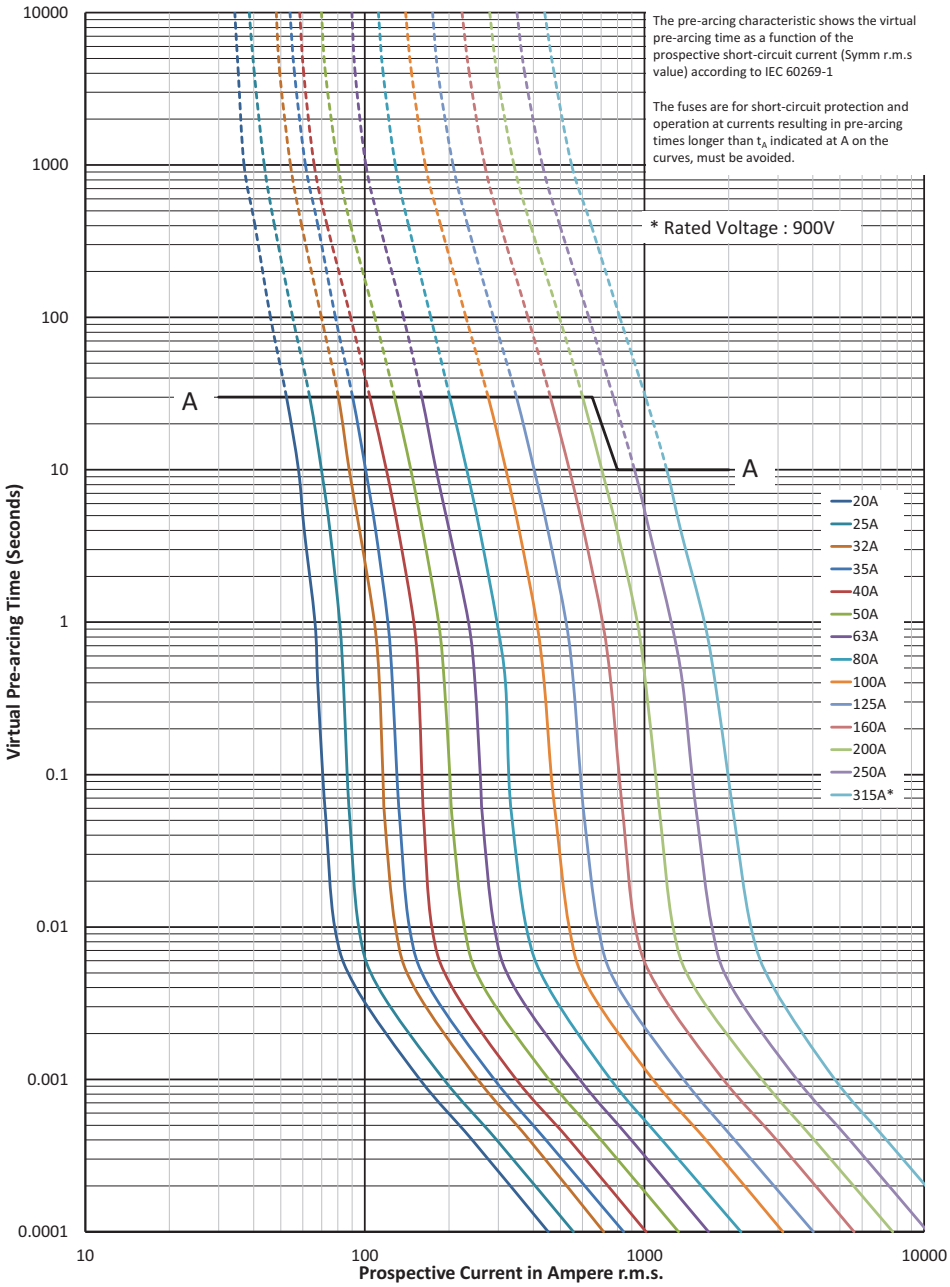
Dimensions (mm)



Data sheet: 170K8504

170M - Size 00, DIN 43653, 1000 V a.c. (IEC and UL), 20 A to 315A

Time-current curve - 20 A to 315 A

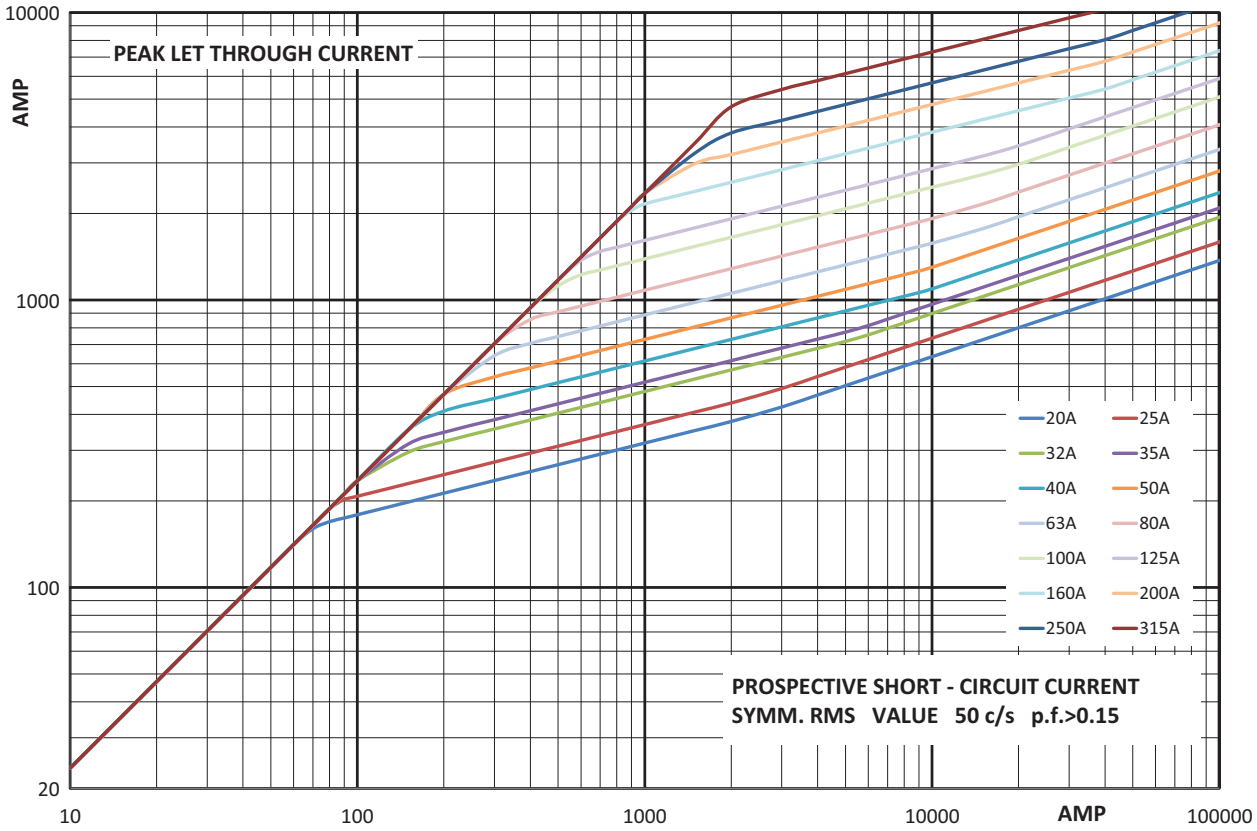


K_b = 1 N = 1.6

Data sheet: 170K8504

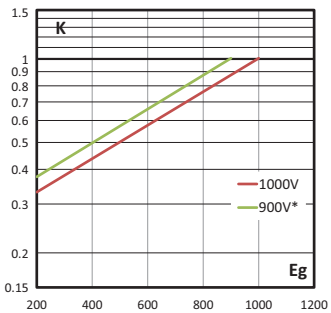
170M - Size 00, DIN 43653, 1000 V a.c. (IEC and UL), 20 A to 315A

Cut-off curve - 20 A to 315 A



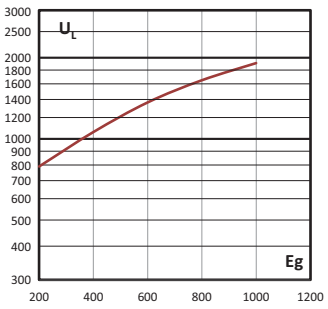
Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).



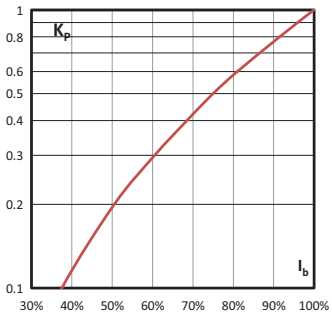
Arc voltage

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 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts 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 percent of the rated current.



Data sheet: 170K8504

170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters / rectifiers and reduced rated voltage starters.

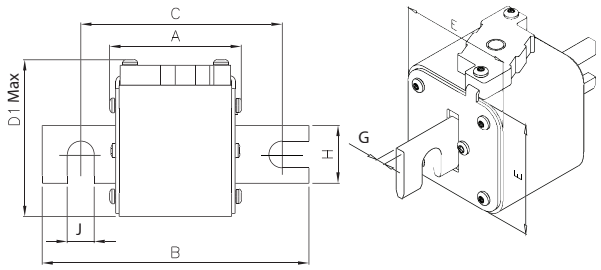
Technical data

- Rated voltage:
  - 1000 V a.c. (IEC, 50 A to 1250 A), 900 V a.c. (IEC, 1400 A)
  - 1000 V a.c. (UL size 2, size 3, 315 A to 1100 A only)
- Rated current: 50 A to 1400 A
- Breaking Capacity:
  - 125kA RMS Sym. AC
  - Size 1: 50 kA for 750 V d.c.
- Operating Class: aR

Standards/Agency Information

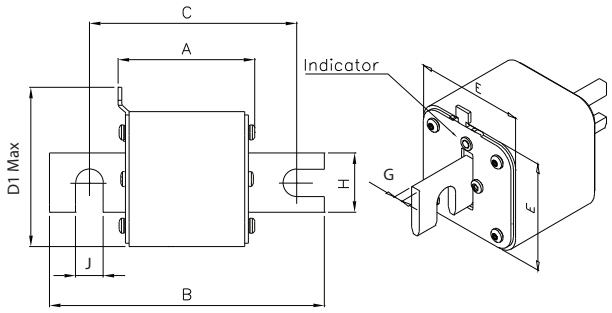
CE, Designed and tested to IEC60269 Part 4, UL Recognised (only sizes 2 and 3), CCC only size 3 (315 A to 1100 A)

Dimensions (mm) -KN/110



Size	A	B	C	D1 (max)	E	G	H	J
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

Dimensions (mm) -TN/110



Size	A	B	C	D1 (max)	E	G	H	J
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

Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

Square body fuse links

170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Catalogue numbers

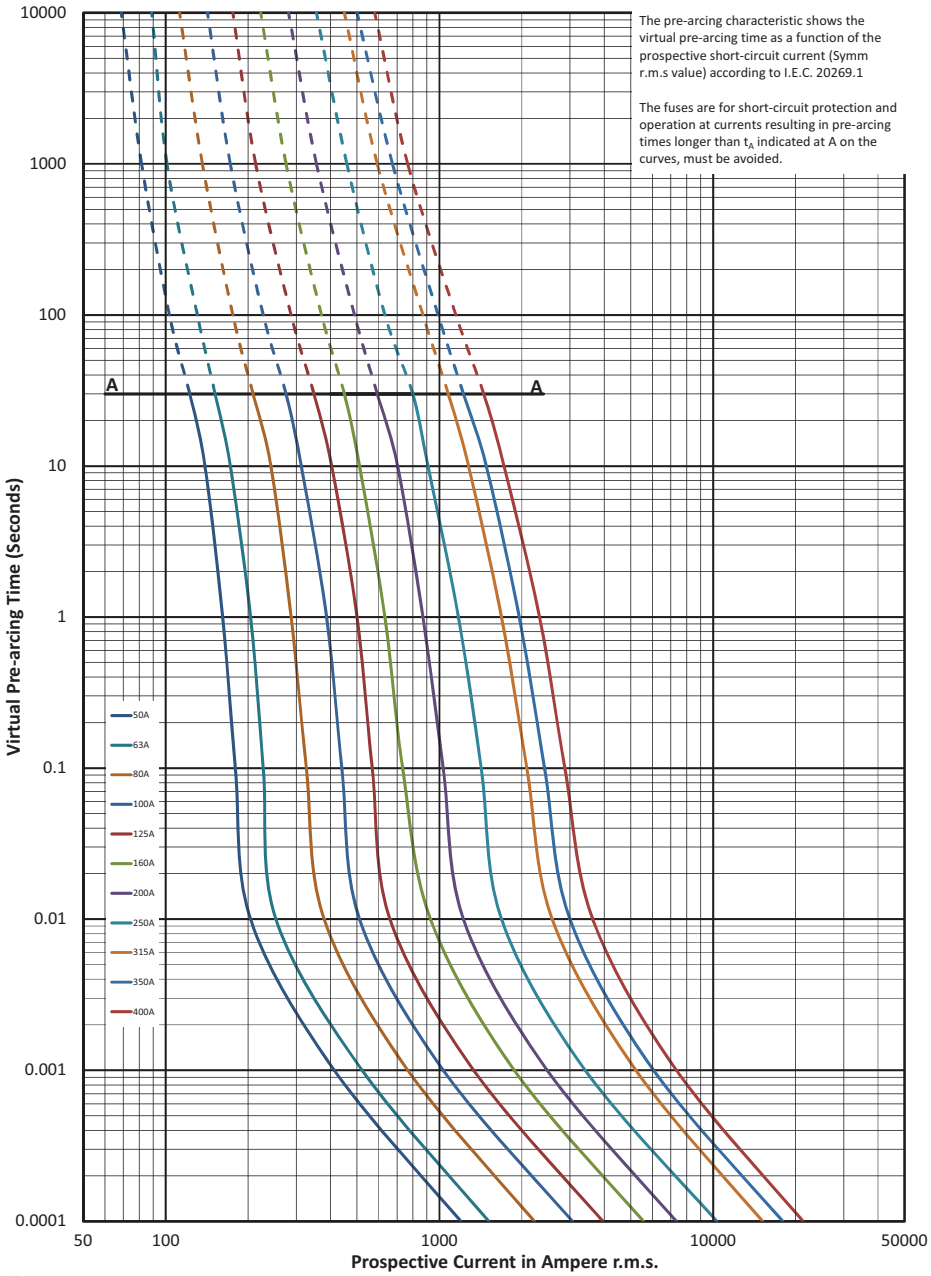
			I^2t (A^2 Sec)			Catalogue numbers	
Fuse link body size	Rated voltage	Rated current (Amps)	Pre-arcing	Clearing at rated voltage	Watts loss (W)	-KN/110 Type K indicator for micro	-TN/110 Type T indicator for micro
1*	1000 V a.c. (IEC)	50	135	815	20	170M3965	170M3981
		63	215	1300	25	170M3966	170M3982
		80	460	2750	30	170M3967	170M3983
		100	860	5100	35	170M3968	170M3984
		125	1450	8600	40	170M3969	170M3985
		160	2850	17,500	45	170M3970	170M3986
		200	4950	29,500	50	170M3971	170M3987
		250	9550	57,000	55	170M3972	170M3988
		315	21,500	130,000	65	170M3973	170M3989
		350	29,000	175,000	70	170M3974	170M3990
		400	42,000	250,000	75	170M3975	170M3991
1	1000 V a.c. (IEC) 1000 V a.c. / 750 V d.c. (UL)	160	2200	13,500	40	170M4965	170M4980
		200	4150	24,500	45	170M4966	170M4981
		250	7750	46,000	52	170M4967	170M4982
		315	16,500	98,500	60	170M4968	170M4983
		350	21,500	130,000	65	170M4969	170M4984
		400	31,000	185,000	70	170M4970	170M4985
		450	44,500	265,000	80	170M4971	170M4986
		500	63,000	375,000	85	170M4972	170M4987
		550	84,500	500,000	90	170M4973	170M4988
		630	125,000	755,000	98	170M4974	170M4989
2	1000 V a.c. (IEC and UL)	250	6750	40,000	65	170M5966	170M5981
		315	13,500	81,500	75	170M5967	170M5982
		350	16,500	99,000	80	170M5968	170M5983
		400	26,000	155,000	85	170M5969	170M5984
		450	35,500	210,000	90	170M5970	170M5985
		500	49,500	295,000	95	170M5971	170M5986
		550	66,000	390,000	100	170M5972	170M5987
		630	93,500	555,000	110	170M5973	170M5988
		700	130,000	770,000	115	170M5974	170M5989
		800	195,000	1,200,000	125	170M5975	170M5990
3	1000 V a.c. (IEC and UL)	315	9200	54,500	90	170M8614	170M8629[1]
		350	13,000	77,500	95	170M8615	170M8630[1]
		400	19,000	115,000	105	170M8616	170M8631[1]
		450	27,000	160,000	107	170M8617	170M8632[1]
		500	37,500	225,000	110	170M8618	170M8633[1]
		550	52,000	310,000	115	170M8619	170M8634[1]
		630	82,500	490,000	120	170M8620	170M8635[1]
		700	115,000	700,000	125	170M8621	170M8636[1]
		800	170,000	1,050,000	135	170M8622	170M8637[1]
		900	250,000	1,500,000	145	170M8623	170M8638[1]
		1000	340,000	2,050,000	150	170M8624	170M8639[1]
		1100	460,000	2,750,000	155	170M8625	170M8640[1]
	1000 V a.c. (IEC)	1250	575,000	3,400,000	175	170M8626	170M8641
	900 V a.c. (IEC)	1400	795,000	4,200,000	185	170M8627	170M8642

[1] Rated at 900 V d.c. 8XIn 90 kA

Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 1* - 50 A to 400 A

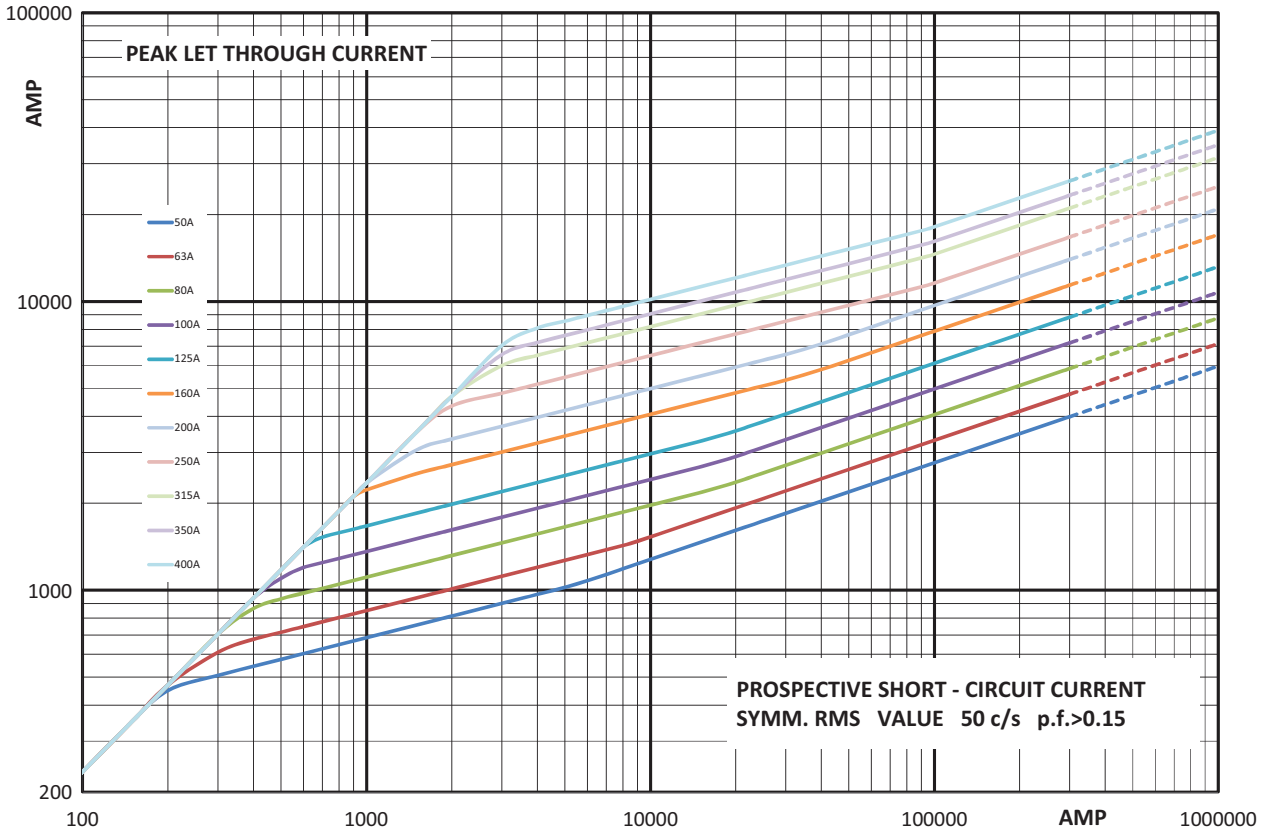


K_b = 1 N = 1,6

Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

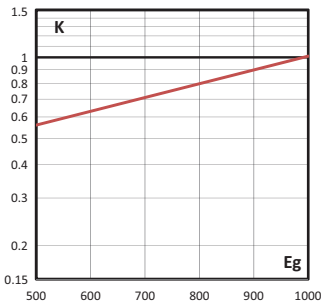
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 1*, 50 A to 400 A



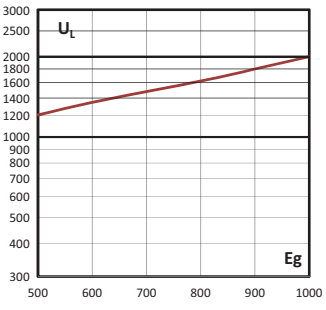
Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).



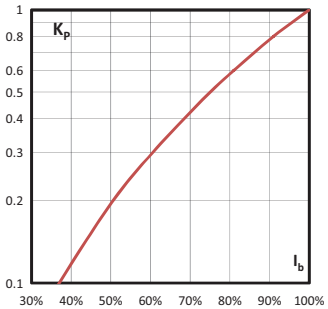
Arc voltage

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 percent.



Watts losses

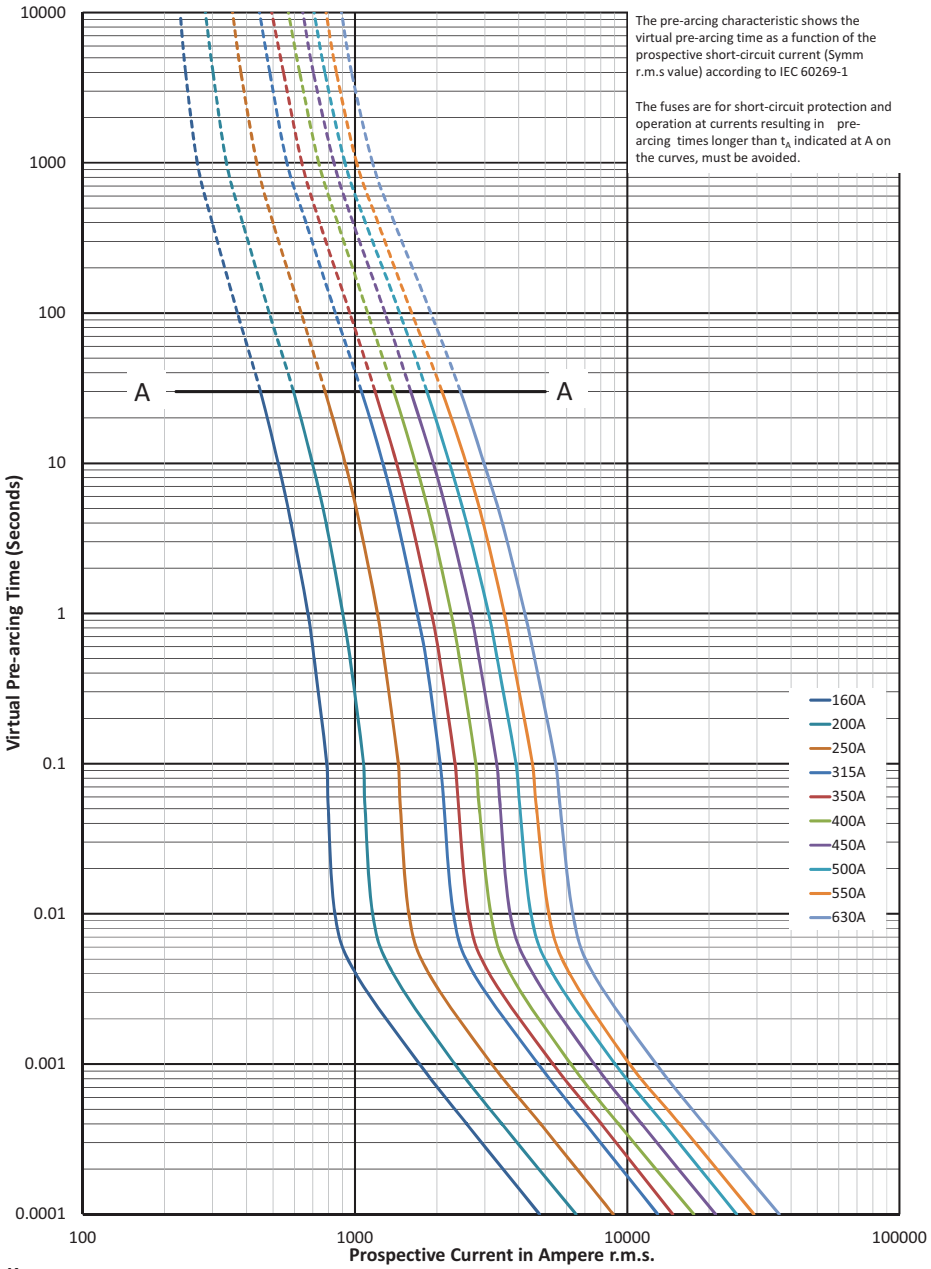
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 1, 160 A to 630 A

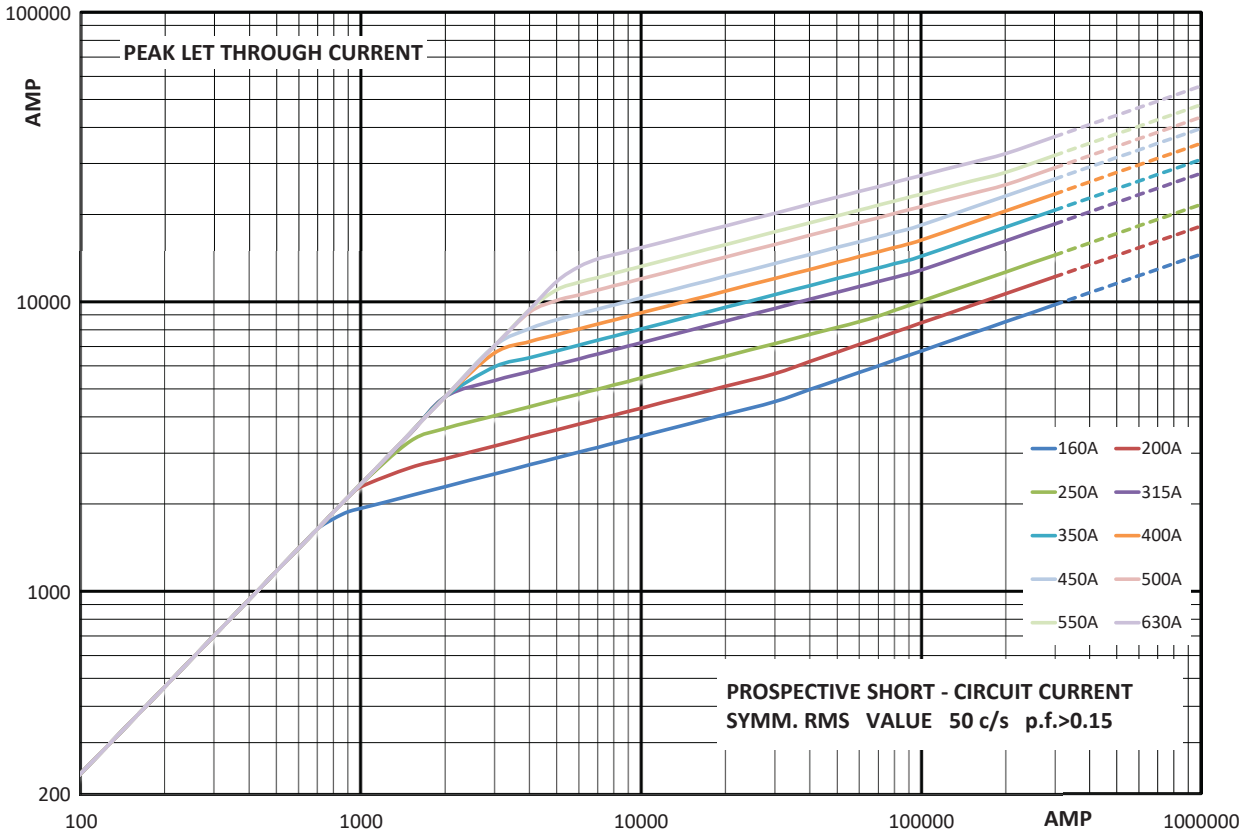


K_b = 1 N = 1.6

Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

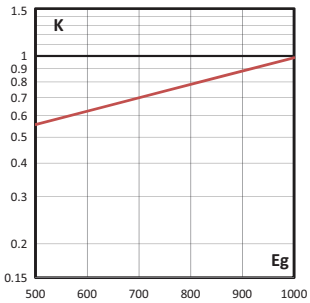
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 1, 160 A to 630 A



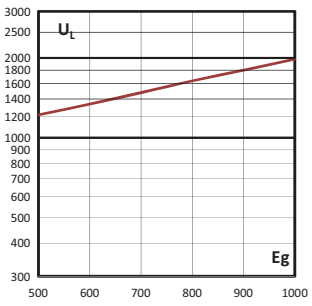
Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).



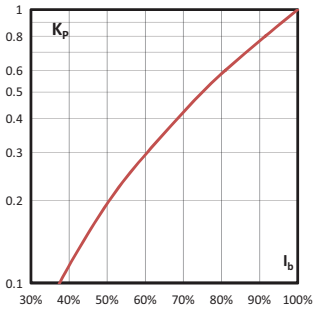
Arc voltage

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 percent.



Watts losses

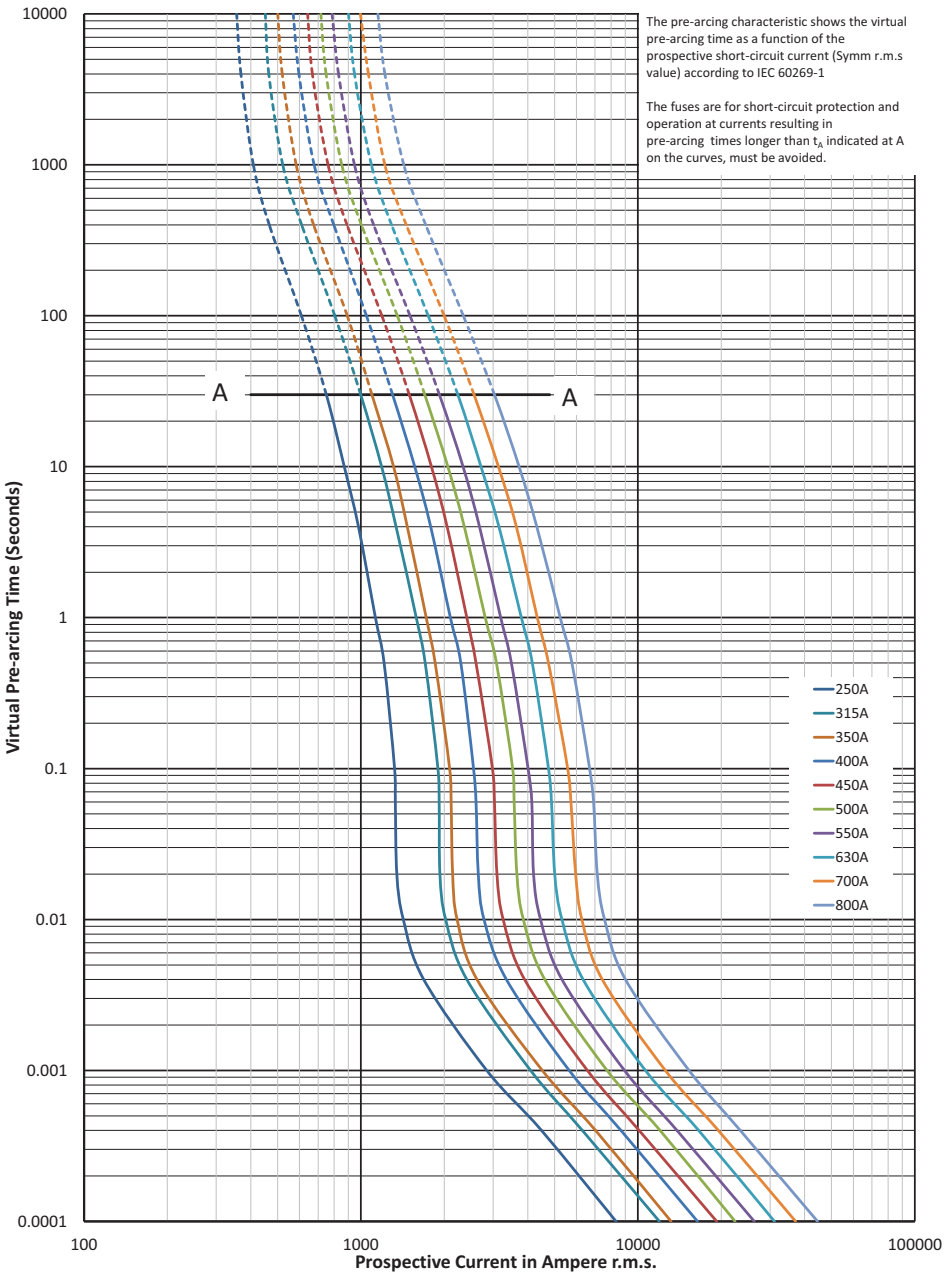
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 2, 250 A to 800 A

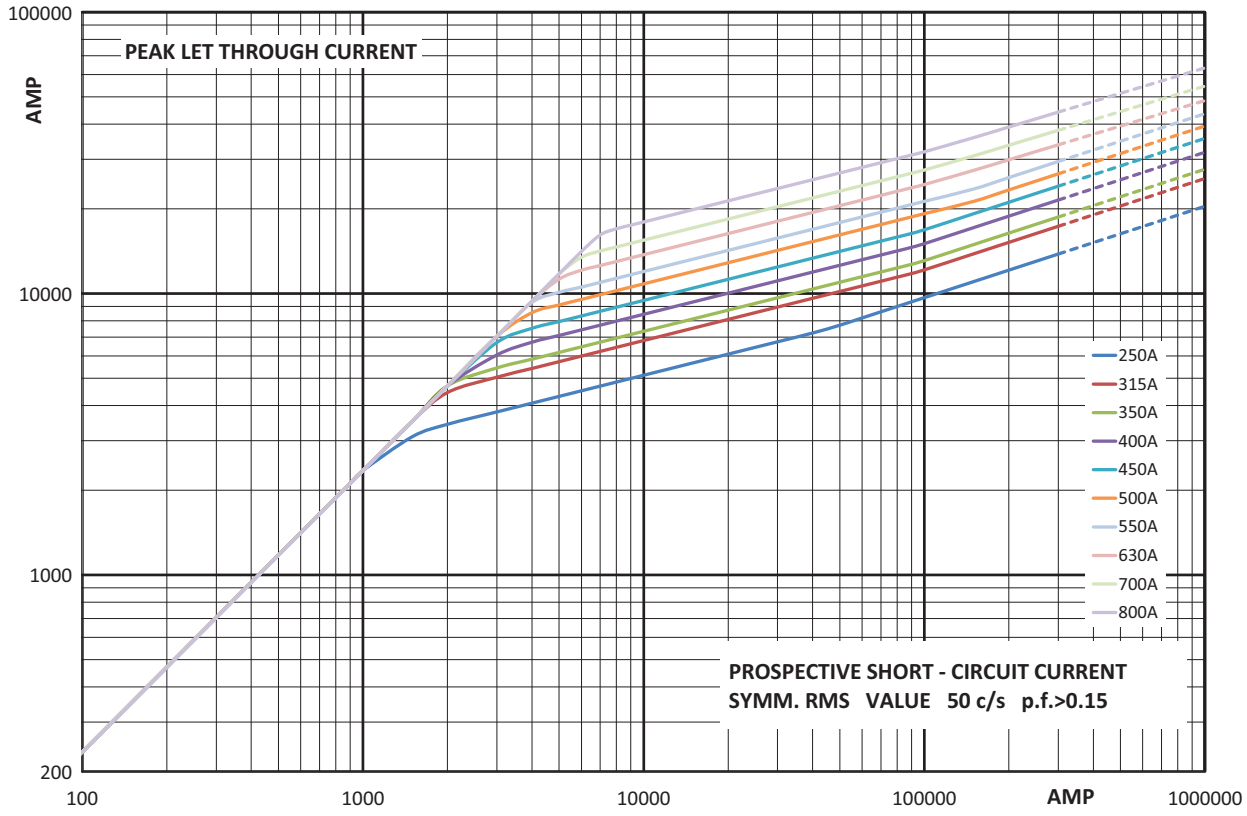


K_b = 1 N = 1.6

Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

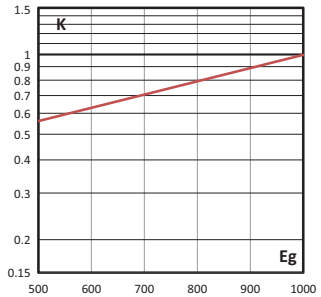
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 2, 250 A to 800 A



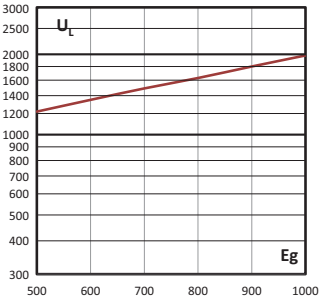
Total clearing I²t

The total clearing I²t at rated voltage and at a power factor of 15 percent 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).



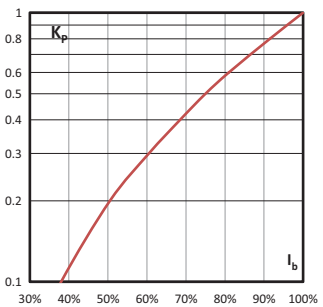
Arc voltage

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 percent.



Watts losses

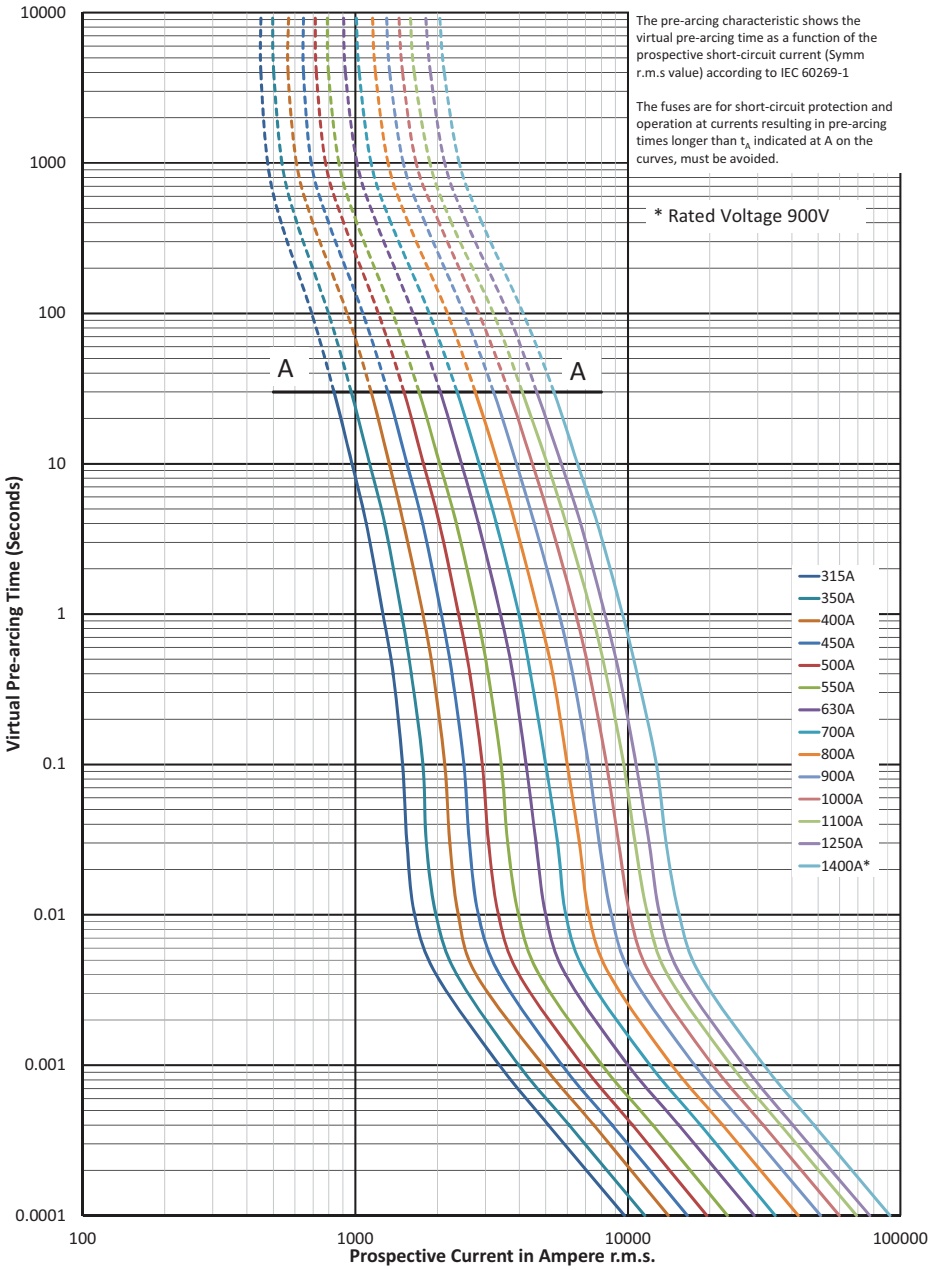
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 3, 315 A to 1400 A

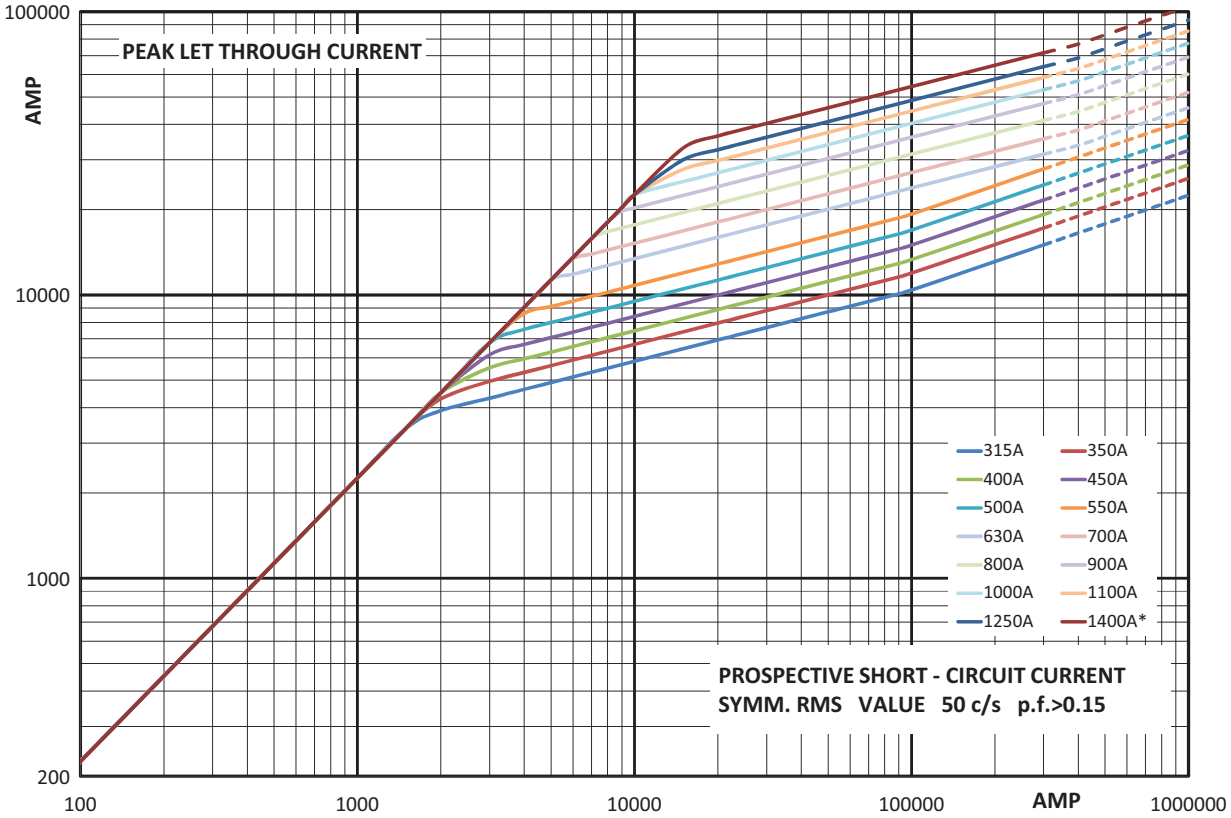


K_b = 1 N = 1.6

Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

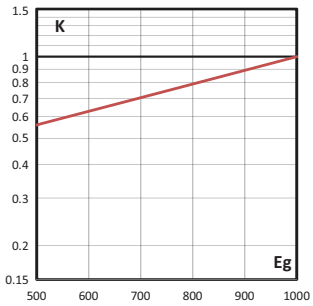
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 3, 315 A to 1400 A



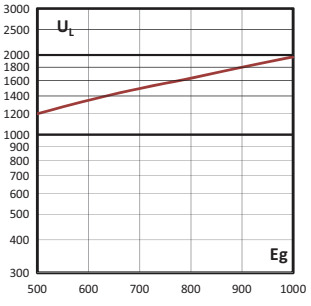
Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).



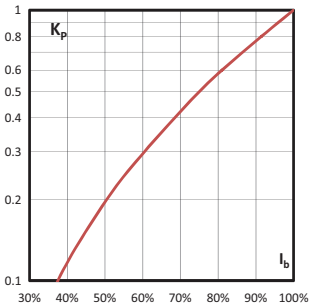
Arc voltage

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 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts 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 percent of the rated current.



Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

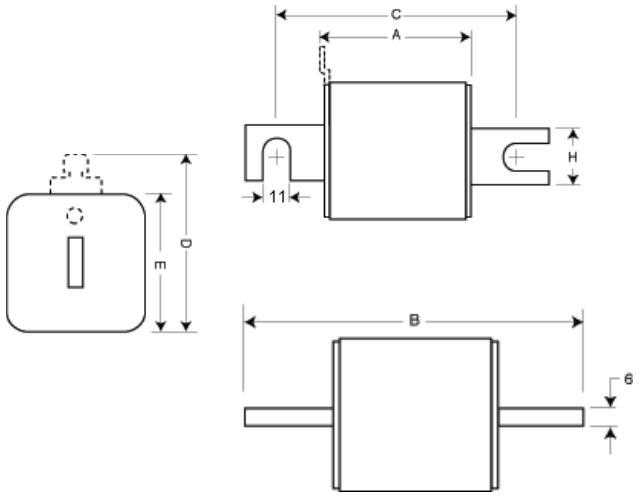
Technical data

- Rated voltage: see table opposite page
- Rated current: 50 A to 1400 A
- Breaking capacity: 100 kA RMS Sym.
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC60269 Part 4. Consult Eaton for UL Recognition/CSA Component Acceptance status.

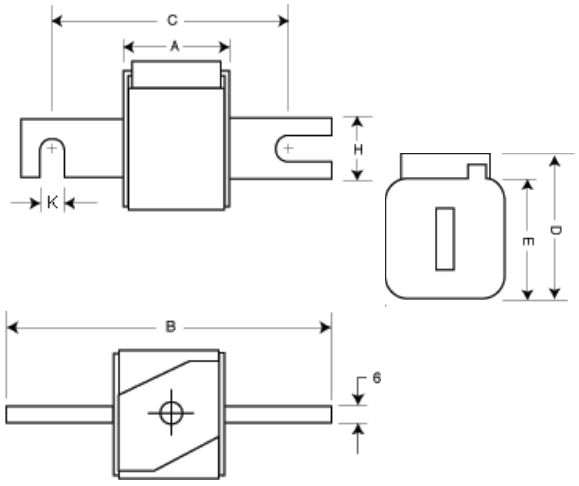
Dimensions (mm) -110 and TN/110



Size	A	B	C	D[1]	E	H	K
1*	80	138	108	58	45	20	11
1	80	138	108	66	53	25	11
2	80	138	108	75	61	25	11
3	81	139	108	90	76	30	11

[1] Clip on Microswitch valid for fuse links -TN//110.
1mm = 0.0394"

Dimensions (mm) - KN/110



Size	A	B	C	D	E	H	K
1*	80	138	108	60	45	20	11
1	80	138	108	69	53	25	11
2	80	138	108	77	61	25	11
3	81	139	108	92	76	30	11

1mm = 0.0394"

Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

Square body fuse links

170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Catalogue numbers

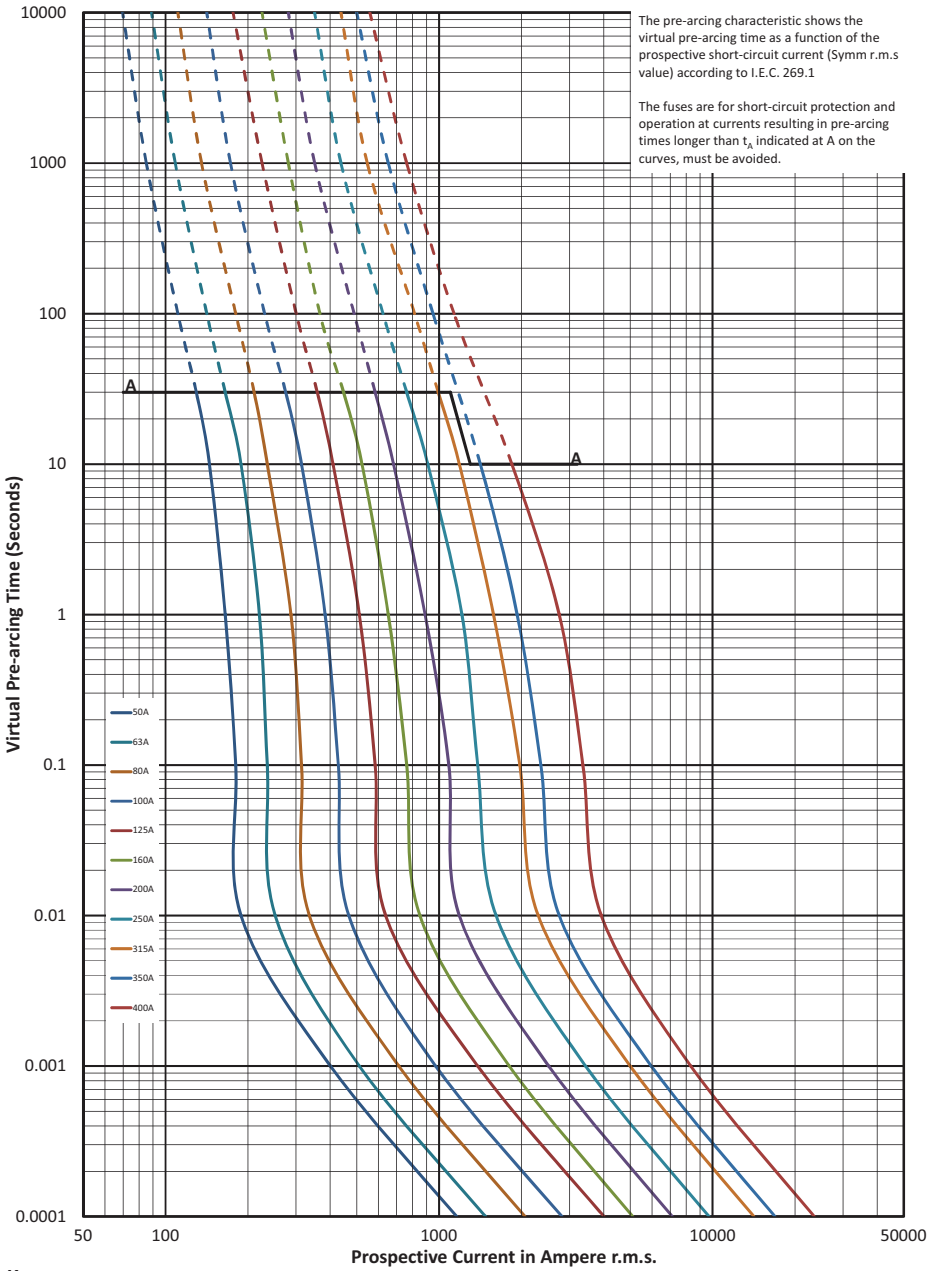
			I²t (A² Sec)				Catalogue numbers		
Fuse link body size	Rated voltage	Rated current (Amps)	Pre-arcing	Clearing at 1000 V a.c.	Clearing at 1250 V a.c.	Watts loss (W)	-/110 Visual indicator	-TN/110 Type T indicator for micro	-KN/110 Type K indicator for micro
1*	1250 V a.c. (IEC) 1300 V a.c. (UL)	50	135	815	1100	15	170M3138	170M3188	170M3238
		63	215	1300	1750	20	170M3139	170M3189	170M3239
		80	420	2500	3350	25	170M3140	170M3190	170M3240
		100	750	4450	5950	30	170M3141	170M3191	170M3241
		125	1450	9000	11,500	35	170M3142	170M3192	170M3242
		160	2600	16,000	21,000	40	170M3143	170M3193	170M3243
		200	5150	31,000	41,000	45	170M3144	170M3194	170M3244
		250	9200	54,500	73,000	55	170M3145	170M3195	170M3245
		315	18,500	115,000	150,000	60	170M3146	170M3196	170M3246
		350	27,000	165,000	220,000	65	170M3147	170M3197	170M3247
		400	53,000	265,000	335,000	70	170M3148	170M3198	170M3248
1	1250 V a.c. (IEC) 1300 V a.c. (UL)	160	1900	11,500	15,500	45	170M4138[2]	170M4188[2]	170M4238[2]
		200	3800	22,500	30,000	50	170M4139[2]	170M4189[2]	170M4239[2]
		250	7750	46,000	61,500	60	170M4140[2]	170M4190[2]	170M4240[2]
		315	15,000	90,000	120,000	65	170M4141[2]	170M4191[2]	170M4241[2]
		350	20,000	125,000	165,000	70	170M4142[2]	170M4192[2]	170M4242[2]
		400	29,500	175,000	235,000	75	170M4143[2]	170M4193[2]	170M4243[2]
		450	42,000	250,000	335,000	80	170M4144[2]	170M4194[2]	170M4244[2]
	800 V d.c. (UL) 85 kA IR	500	69,500	340,000	435,000	85	170M4145	170M4195	170M4245
		550	95,000	465,000	590,000	95	170M4146	170M4196	170M4246
	1100 V a.c. (IEC)	630	130,000	660,000	N/A	100	170M4147[1]	170M4197[1]	170M4247[1]
2	1250 V a.c. (IEC) 1300 V a.c. (UL)	250	6500	38,500	51,500	65	170M5138	170M5188	170M5238
		280	9350	55,500	74,500	70	170M5139	170M5189	170M5239
		315	13,000	77,500	105,000	75	170M5140	170M5190	170M5240
		350	16,500	97,500	135,000	80	170M5141	170M5191	170M5241
		400	23,000	140,000	180,000	85	170M5142	170M5192	170M5242
		450	34,000	205,000	270,000	90	170M5143	170M5193	170M5243
		500	48,000	285,000	380,000	95	170M5144	170M5194	170M5244
		550	62,000	370,000	495,000	100	170M5145	170M5195	170M5245
		630	115,000	575,000	730,000	120	170M5146[2]	170M5196[2]	170M5246
		700	160,000	795,000	1,050,000	125	170M5147[2]	170M5197[2]	170M5247
		800	245,000	1,200,000	1,550,000	130	170M5148[2]	170M5198[2]	170M5248
	1100 V a.c. (IEC & UL)	900	360,000	1,750,000	N/A	135	170M5149[4]	170M5199[4]	170M5249[4]
		1000	480,000	2,350,000	N/A	145	170M5150[4]	170M5200[4]	170M5250[4]
3	1300 V a.c. (UL)	315	9500	58,000	77,500	85	170M6138[2]	170M6188[2]	170M6238[2]
		350	13,500	81,500	110,000	90	170M6139[2]	170M6189[2]	170M6239[2]
		400	19,500	120,000	160,000	95	170M6140[2]	170M6190[2]	170M6240[2]
		450	31,000	185,000	245,000	100	170M6141[2]	170M6191[2]	170M6241[2]
		500	39,000	235,000	310,000	105	170M6142[2]	170M6192[2]	170M6242[2]
		550	55,000	325,000	435,000	110	170M6143[2]	170M6193[2]	170M6243[2]
		630	83,500	495,000	665,000	115	170M6144[2]	170M6194[2]	170M6244[2]
		700	115,000	705,000	940,000	120	170M6145[2]	170M6195[2]	170M6245[2]
		800	205,000	995,000	1,300,000	125	170M6146[3]	170M6196[3]	170M6246[1]
		900	305,000	1,500,000	1,900,000	130	170M6147[3]	170M6197[3]	170M6247[1]
		1000	450,000	2,150,000	2,750,000	135	170M6148[3]	170M6198[3]	170M6248[1]
		1100	575,000	2,800,000	3,600,000	160	170M6149[3]	170M6199[3]	170M6249[1]
	1100 V a.c. (IEC)	1250	810,000	3,950,000	N/A	170	170M6150[5]	170M6200[1]	170M6250[1]
		1400	1,250,000	6,000,000	N/A	175	170M6151[5]	170M6201[1]	170M6251[1]

[1] These fuse links are not UL recognised [2] 900 V d.c. 8XIn 90 kA [3] Rated at 1000 V d.c. 10XIn 91 kA [4] 900 V d.c. 9.5XIn 80 kA
[5] 900 V d.c. 12XIn 90 kA

Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 1*, 50 A to 400 A



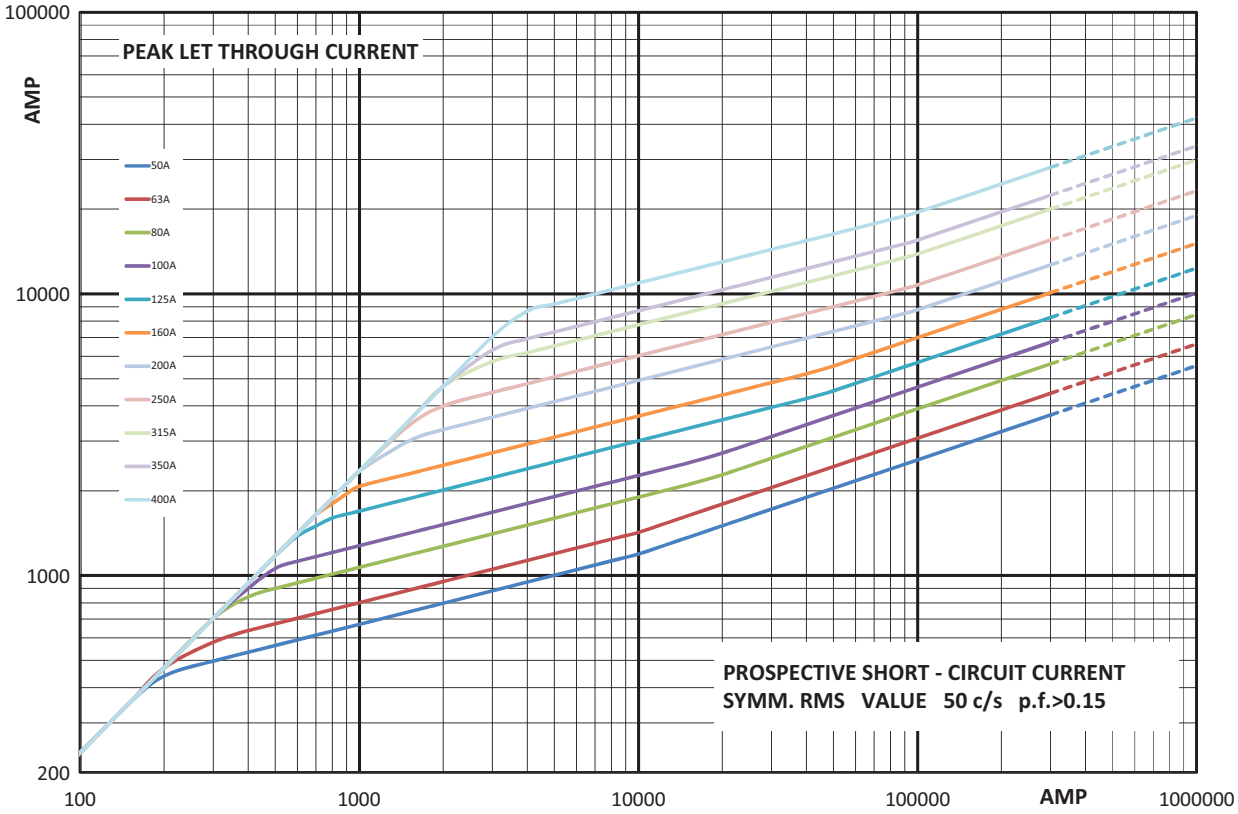
K_b = 1 N = 1,6

Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

Square body fuse links

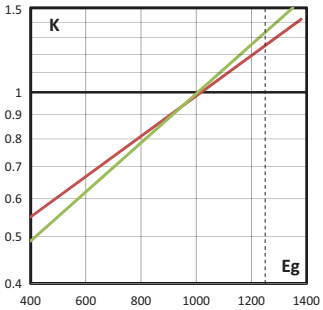
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 1*, 50 A to 400 A



Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).

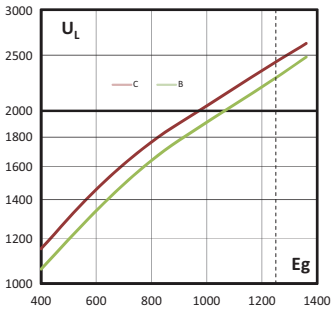


Green curve: fuses ≤ 350 A

Red curve: fuses ≥ 400 A

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 percent.

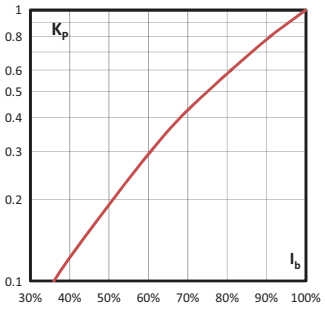


B: fuses ≤ 350 A

C: fuses ≥ 400 A

Watts losses

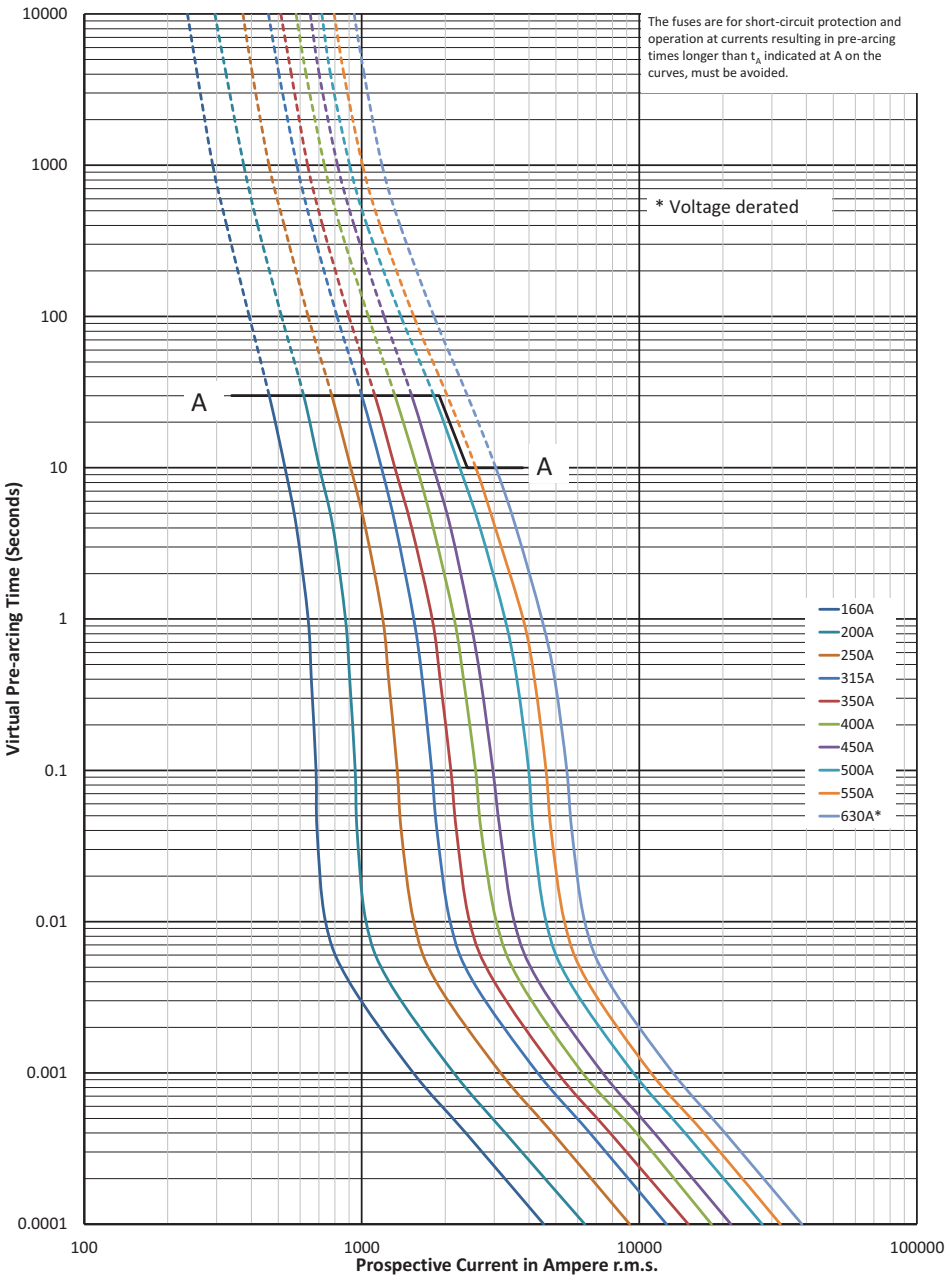
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 1, 160 A to 630 A



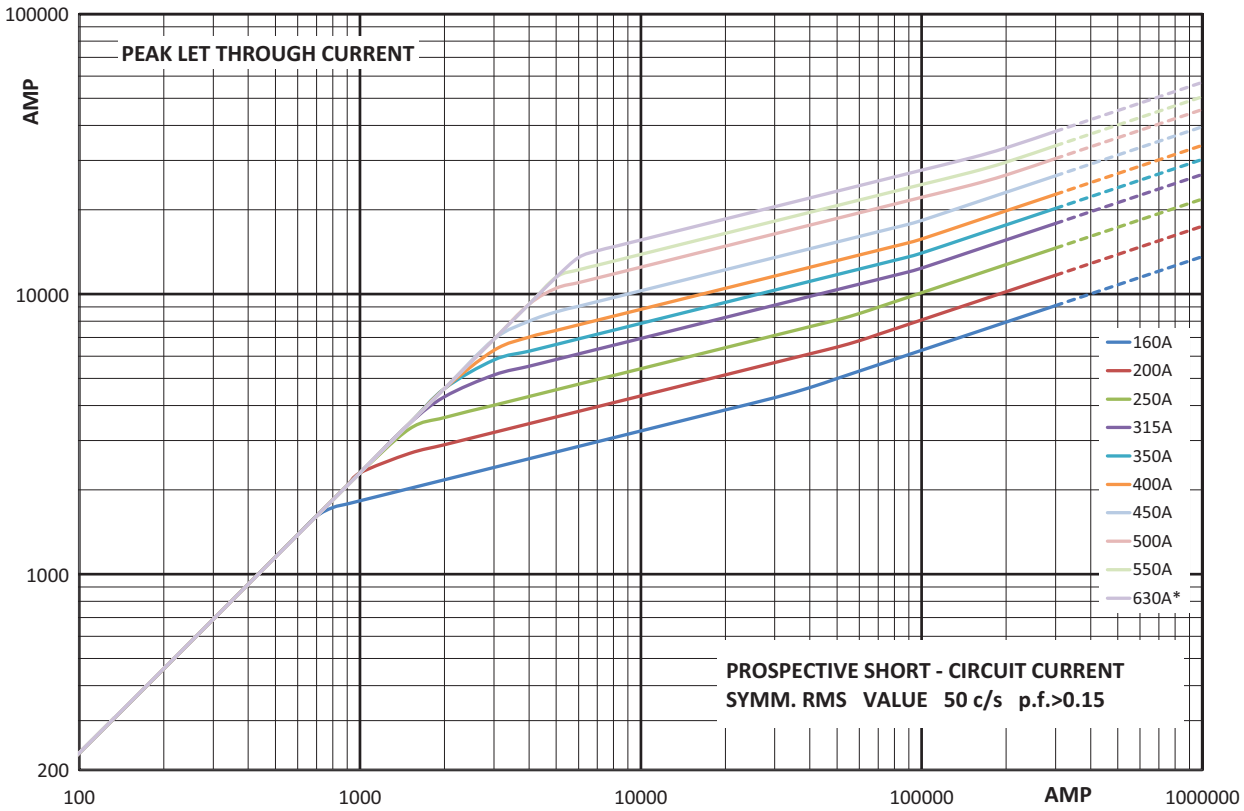
K_b = 1 N = 1.6

Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

Square body fuse links

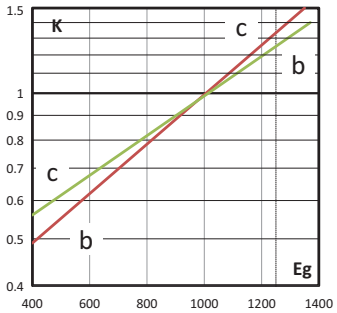
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 1, 160 A to 630 A



Total clearing I²t

The total clearing I²t at rated voltage and at a power factor of 15 percent 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).

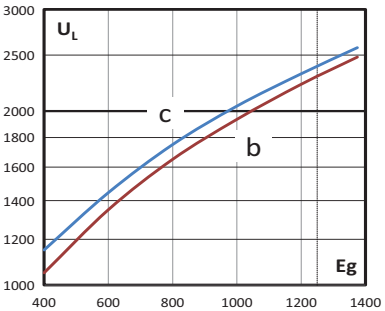


B: fuses ≤ 450 A

C: fuses ≥ 500 A

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 percent.

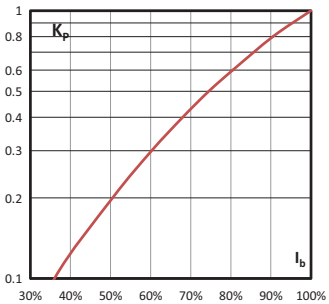


B: fuses ≤ 450 A

C: fuses ≥ 500 A

Watts losses

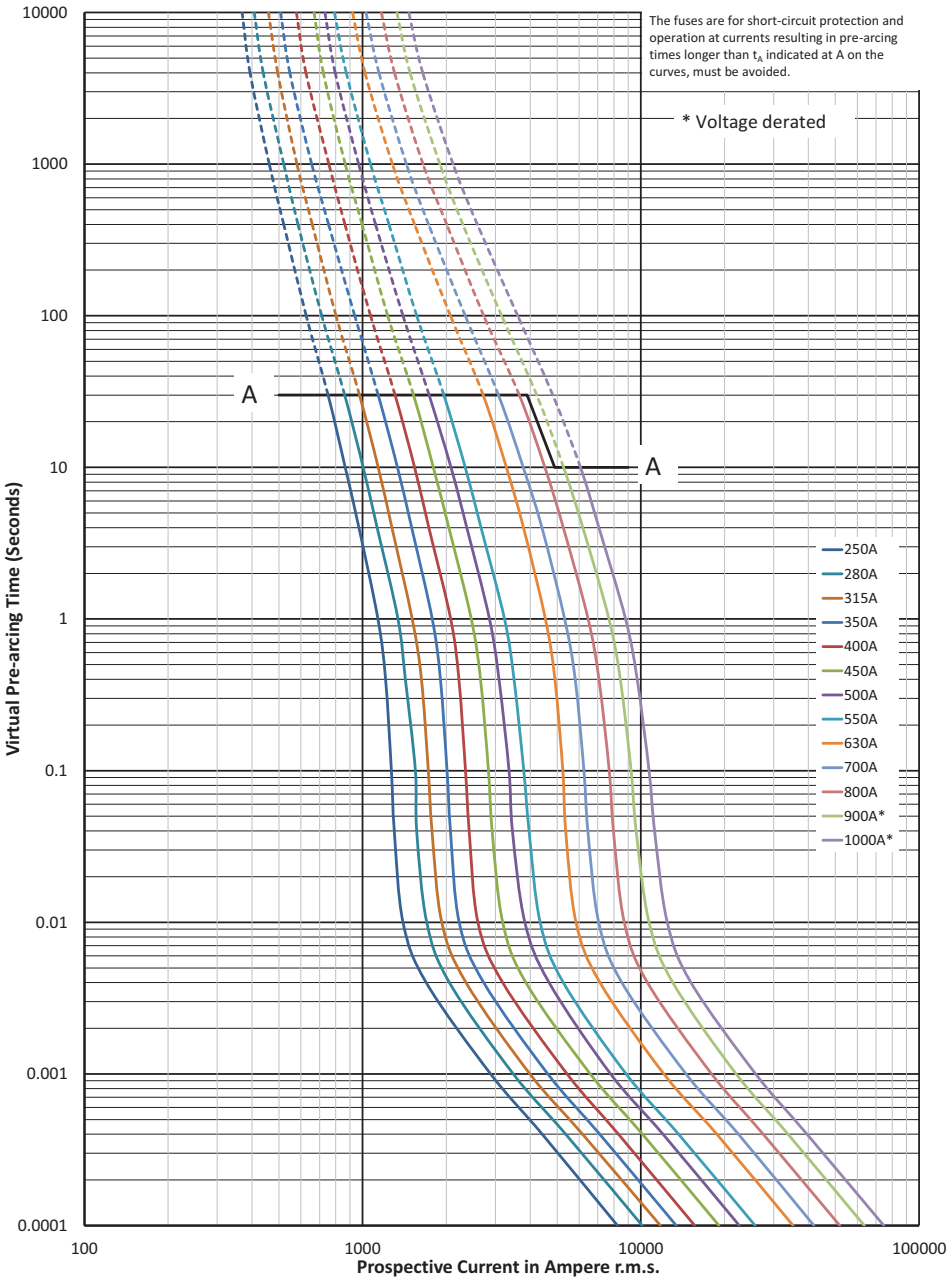
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 2, 250 A to 1000 A



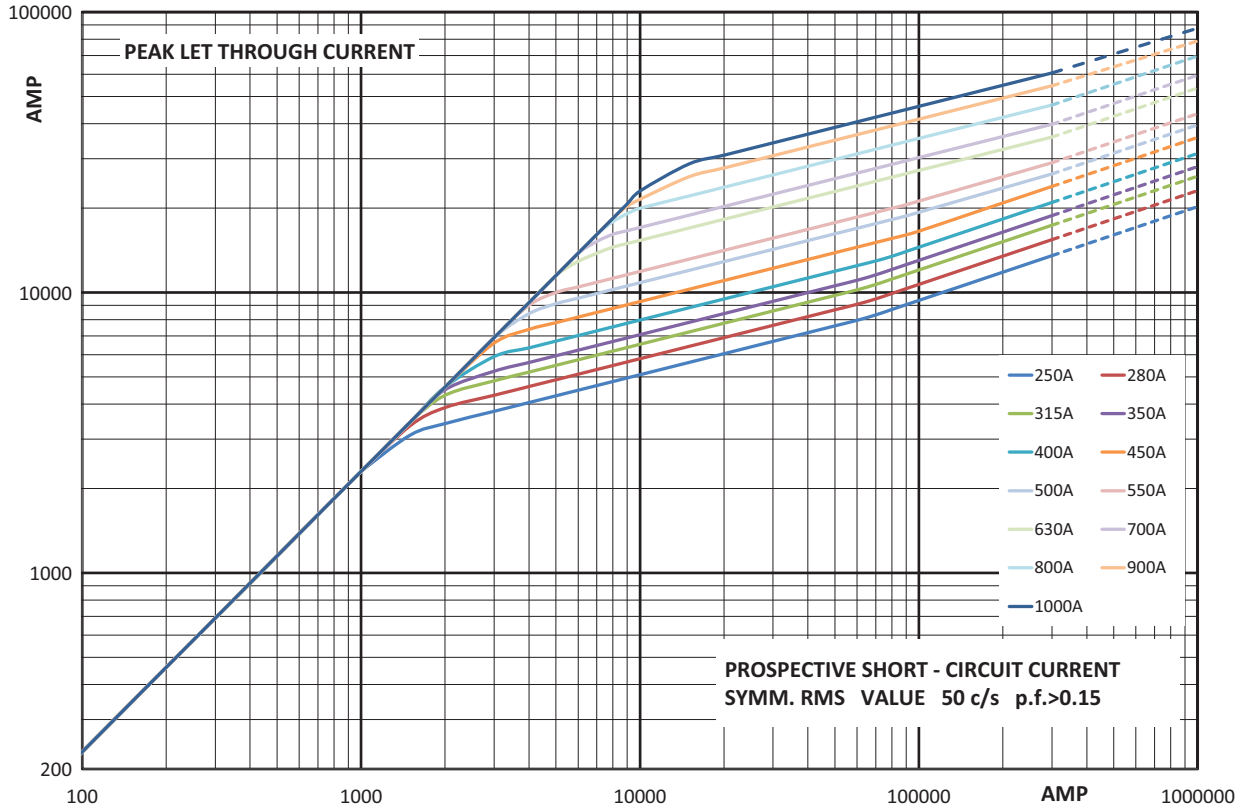
K_b = 1 N = 1.6

Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

Square body fuse links

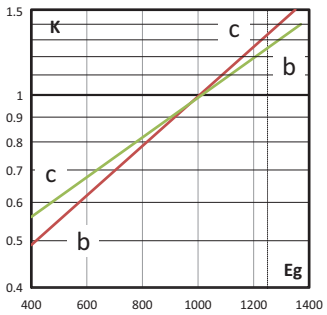
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 2, 250 A to 1000 A



Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).

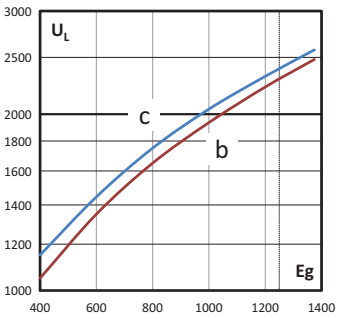


B: fuses ≤ 550 A

C: fuses ≥ 630 A

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 percent.

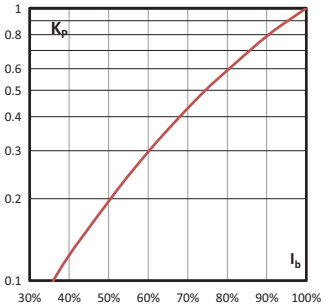


B: fuses ≤ 550 A

C: fuses ≥ 630 A

Watts losses

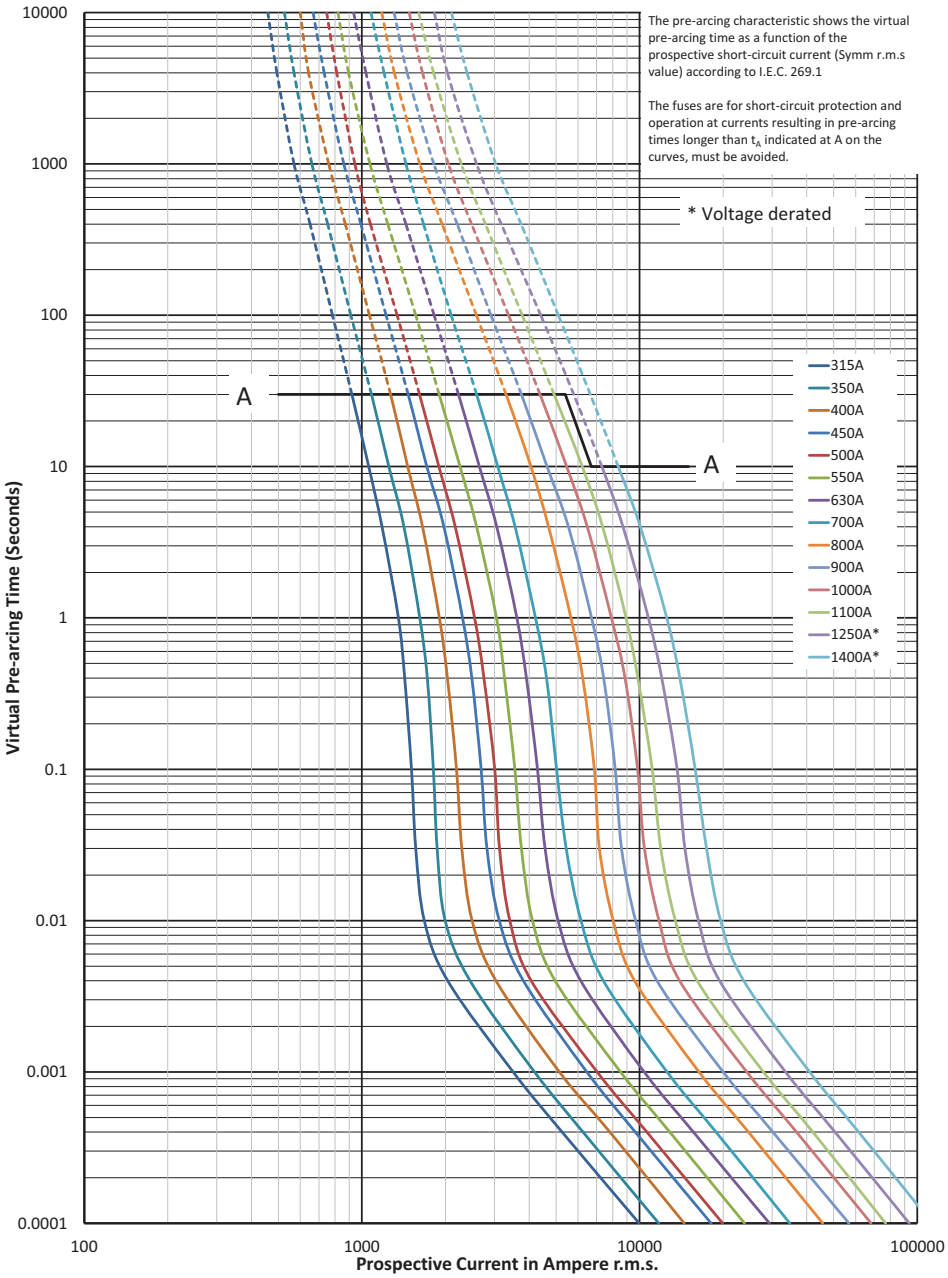
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 3, 315 A to 1400 A



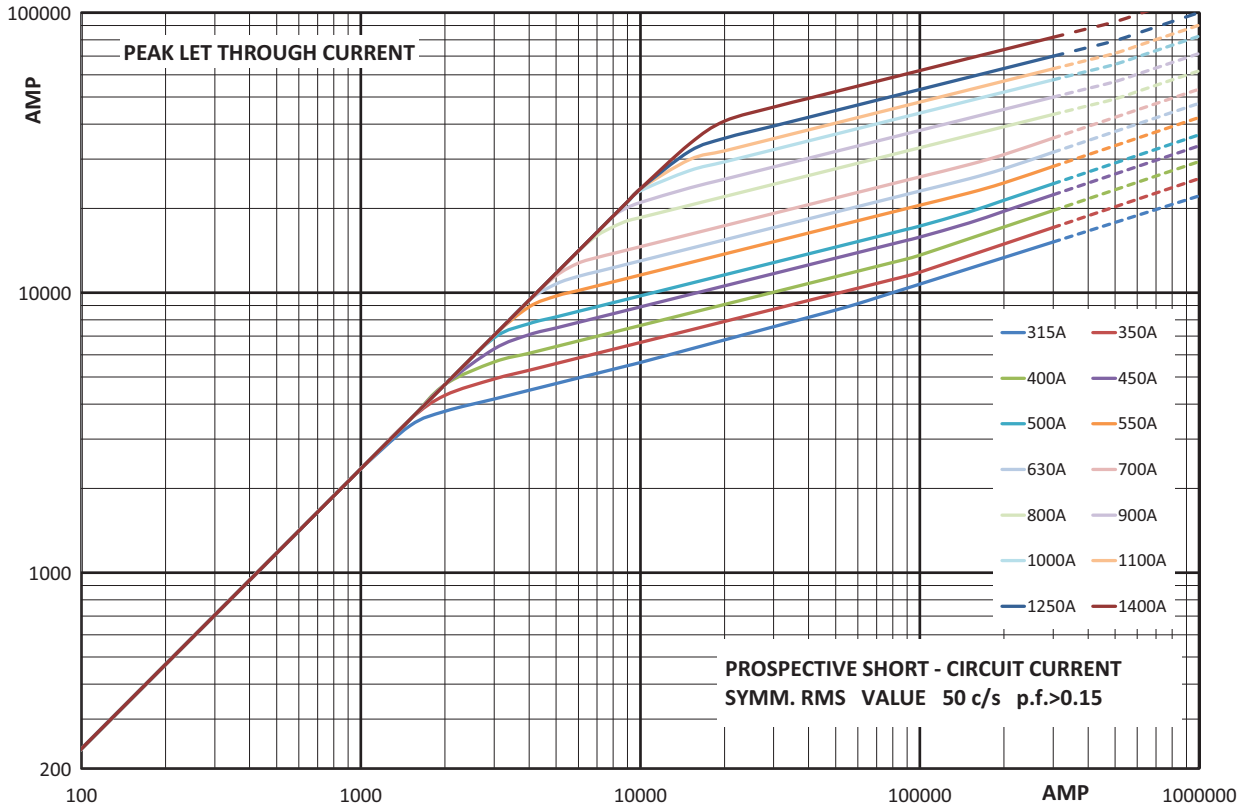
K_b = 1 N = 1.6

Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)

Square body fuse links

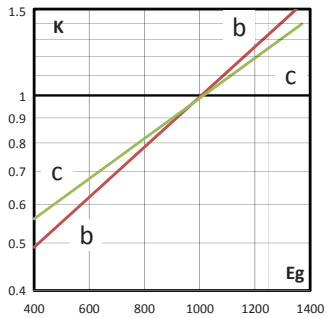
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 3, 315 A to 1400 A



Total clearing I^2t

The total clearing I^2t at rated voltage and at a power factor of 15 percent 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).

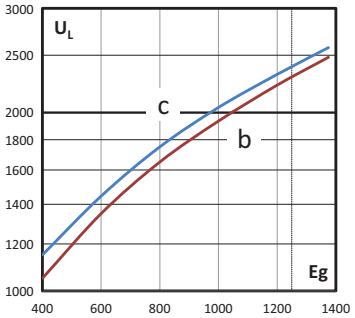


B: fuses ≤ 550 A

C: fuses ≥ 630 A

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 percent.

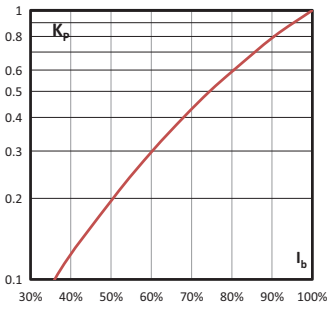


B: fuses ≤ 700 A

C: fuses ≥ 800 A

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts 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 percent of the rated current.



Data sheets: 170K6630 (Size 1*), 170K6632 (Size 1), 170K6634 (Size 2), 170K6636 (Size 3)