

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 - Size 00, Flush end contact, 690 V a.c., 25 A to 400 A

Specifications

Description

Square body flush end contact 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)
- Rated current: 25 A to 400 A
- Breaking capacity: 200 kA RMS Sym
- Operating class:
 - gR (25 A to 80 A)
 - aR (100 A to 400 A)

Standards / Agency information

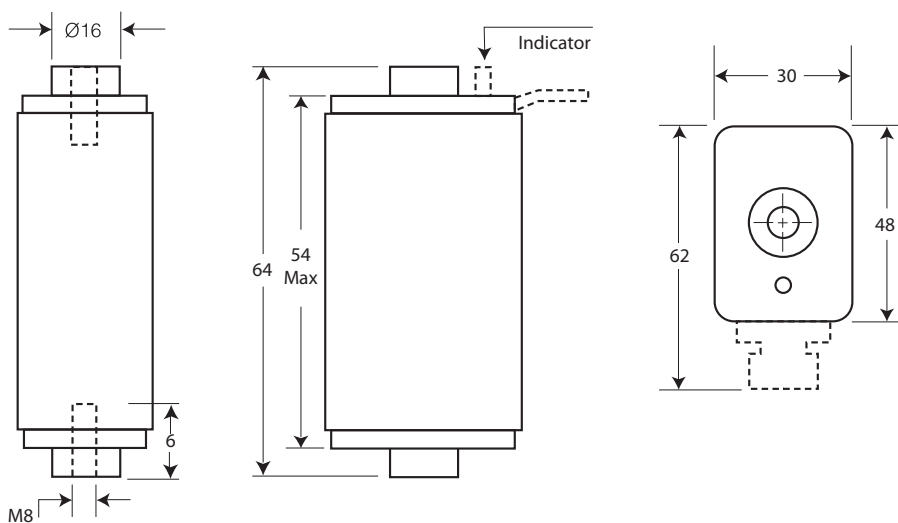
CE, Designed and tested to IEC 60269 Part 4



Catalogue numbers

Fuse link body size	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)		Watts loss (W)	Catalogue numbers	
			Pre-arcing	Clearing at 660 V a.c.		00B/60 visual indicator	00BTN/60 Type T indicator for micro
00	690 V a.c. (IEC)	25	19	130	6	170M2708	170M2758
		32	28.5	195	7	170M2709	170M2759
		40	50	360	9	170M2710	170M2760
		50	95	640	10	170M2711	170M2761
		63	170	1200	12	170M2712	170M2762
		80	310	2100	15	170M2713	170M2763
		100	620	4150	20	170M2714	170M2764
		125	1000	6950	25	170M2715	170M2765
		160	1900	13,000	30	170M2716	170M2766
		200	3400	23,000	35	170M2717	170M2767
		250	6250	42,000	45	170M2718	170M2768
		315	10,000	68,500	55	170M2719	170M2769
		350	13,500	91,500	60	170M2720	170M2770
		400	18,000	125,000	70	170M2721	170M2771

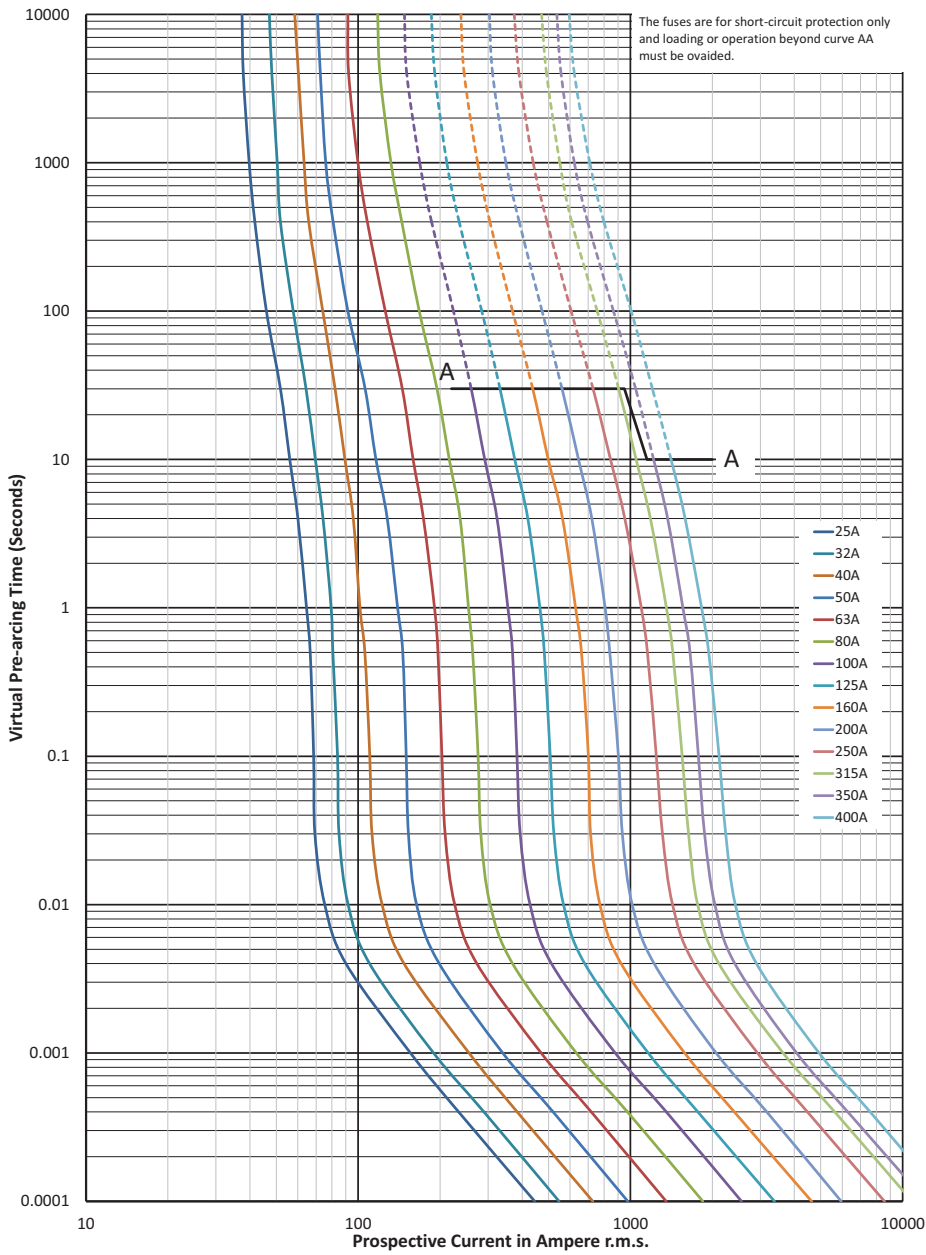
Dimensions (mm)



Data sheet: 170K6312

170M - Size 00, Flush end contact, 690 V a.c., 25 A to 400 A

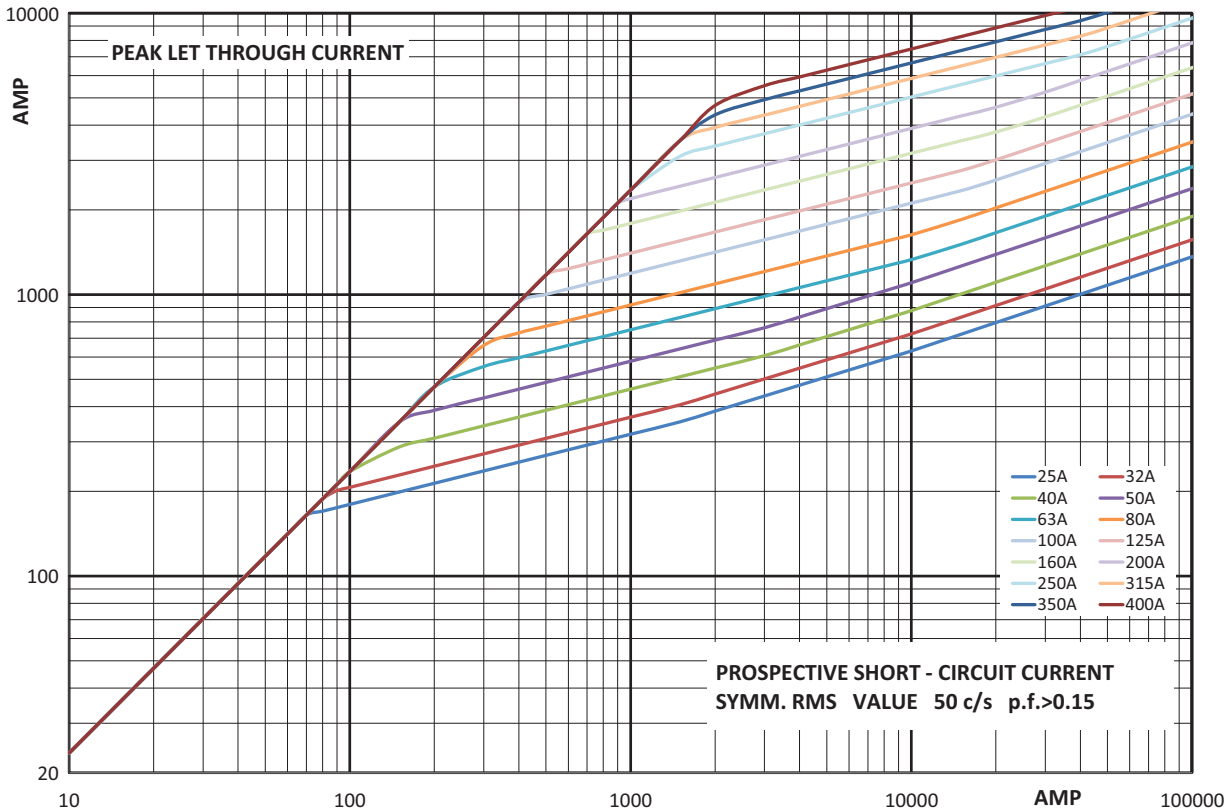
Time-current curve - Size 00, 25 A to 400 A



Square body fuse links

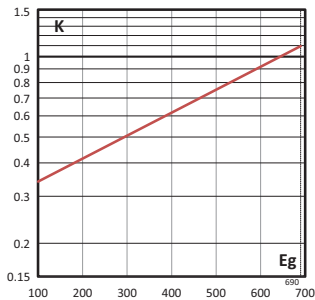
170M - Size 00, Flush end contact, 690 V a.c., 25 A to 400 A

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



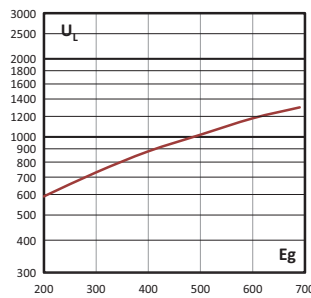
Total clearing I²t

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).



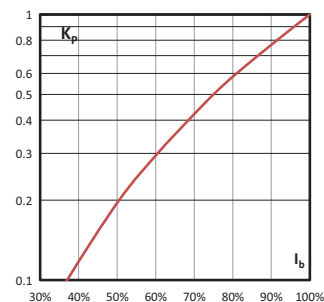
Arc voltage

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.



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

Specifications

Description

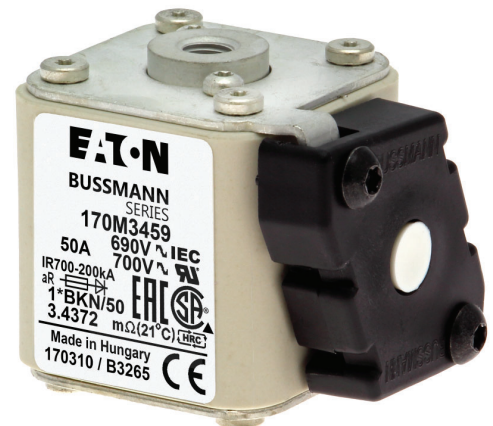
Square body flush end contact high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

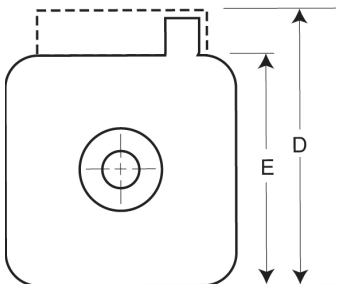
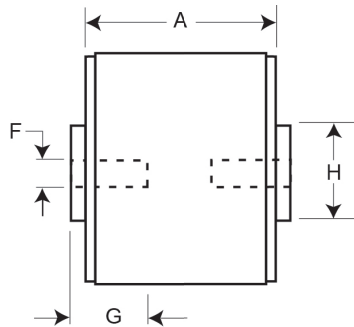
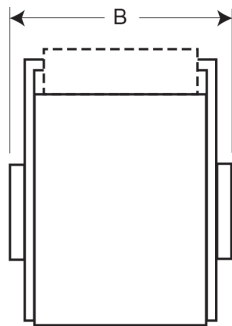
- Rated voltage: see table page 192
- Rated current: 40 A to 2000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4. Consult Eaton for UL Recognition, CSA Component Acceptance Status and CCC approvals



Dimensions (mm)



Size	A	B	D ³	E	F	F ¹ (in)	G min	H
1*	50	51	59	45	M8	5/16" -18 UNC-2B	5	N17
1	50	51	69	53	M8	5/16" -18 UNC-2B	8	N20
2	50	51 (400 - 1000 A) 65 (1100 and 1250 (A))	77	61	M10	3/8" -16 UNC-2B	10	N24
3	51	53 (500 - 1500 A) 65 (1600 - 2000 A)	92	76	M12	1/2" -13 UNC-2B	10	N30

¹ Valid for fuse links type -G- & -GKN/.

³ Valid for fuse links type -BKN/ and -GKN/.

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

Square body fuse links

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

Fuse link body size	Rated voltage	I ² t (A ² Sec)			Catalogue numbers				
		Rated current (Amps)	Pre-arcing	Clearing at 660 V a.c.	Watts loss (W)	-B/- visual indicator	-BKN/- Type K indicator for micro	-G/- visual indicator	-GKN/- Type K indicator for micro
1*	690 V a.c. (IEC) 700 V a.c. (UL)	40	40	270	11	170M3408	170M3458	170M3508	170M3558
		50	77	515	13	170M3409	170M3459	170M3509	170M3559
		63	115	770	17	170M3410	170M3460	170M3510	170M3560
		80	185	1250	21	170M3411	170M3461	170M3511	170M3561
		100	360	2450	24	170M3412	170M3462	170M3512	170M3562
		125	550	3700	30	170M3413	170M3463	170M3513	170M3563
		160	1100	7500	34	170M3414	170M3464	170M3514	170M3564
		200	2200	15,000	41	170M3415	170M3465	170M3515	170M3565
		250	4200	28,500	47	170M3416	170M3466	170M3516	170M3566
		315	7000	46,500	60	170M3417	170M3467	170M3517	170M3567
		350	10,000	68,500	64	170M3418	170M3468	170M3518	170M3568
		400	15,000	105,000	69	170M3419	170M3469	170M3519	170M3569
		450	21,000	140,000	75	170M3420	170M3470	170M3520	170M3570
		500	27,000	180,000	83	170M3421	170M3471	170M3521	170M3571
		550	34,000	230,000	89	170M3422	170M3472	170M3522	170M3572
630	48,500	325,000	100	170M3423	170M3473	170M3523	170M3573		
1	690 V a.c. (IEC) 700 V a.c. (UL)	200	1650	11,500	45	170M4408	170M4458	170M4508	170M4558
		250	3100	21,000	55	170M4409	170M4459	170M4509	170M4559
		315	6200	42,000	58	170M4410	170M4460	170M4510	170M4560
		350	8500	59,000	60	170M4411	170M4461	170M4511	170M4561
		400	13,500	91,500	65	170M4412	170M4462	170M4512	170M4562
		450	17,000	120,000	70	170M4413	170M4463	170M4513	170M4563
		500	25,000	170,000	72	170M4414	170M4464	170M4514	170M4564
		550	34,000	230,000	75	170M4415	170M4465	170M4515	170M4565
		630	52,000	350,000	80	170M4416	170M4466	170M4516	170M4566
		700	69,500	465,000	85	170M4417	170M4467	170M4517	170M4567
800	105,000	725,000	95	170M4418	170M4468	170M4518	170M4568		
550 V a.c. (IEC)	900	155,000	850,000	100	170M4419	170M4469	170M4519	170M4569	
2	690 V a.c. (IEC) 700 V a.c. (UL)	400	11,000	74,000	65	170M5408	170M5458	170M5508	170M5558
		450	15,500	105,000	70	170M5409	170M5459	170M5509	170M5559
		500	21,500	145,000	75	170M5410	170M5460	170M5510	170M5560
		550	28,000	190,000	80	170M5411	170M5461	170M5511	170M5561
		630	41,000	275,000	90	170M5412	170M5462	170M5512	170M5562
		700	60,500	405,000	95	170M5413	170M5463	170M5513	170M5563
		800	86,000	575,000	105	170M5414	170M5464	170M5514	170M5564
		900	125,000	840,000	110	170M5415	170M5465	170M5515	170M5565
		1000	180,000	1,250,000	115	170M5416	170M5466	170M5516	170M5566
		600 V a.c. (IEC) 700 V a.c. (UL)	1100	245,000	1,600,000	120	170M5417	170M5467	170M5517
1250	365,000	2,400,000	130	170M5418	170M5468	170M5518	170M5568		
3	690 V a.c. (IEC) 700 V a.c. (UL)	500	14,000	95,000	95	170M6408	170M6458	170M6508	170M6558
		550	19,500	135,000	100	170M6409	170M6459	170M6509	170M6559
		630	31,000	210,000	105	170M6410	170M6460	170M6510	170M6560
		700	44,500	300,000	110	170M6411	170M6461	170M6511	170M6561
		800	69,500	465,000	115	170M6412	170M6462	170M6512	170M6562
		900	100,000	670,000	120	170M6413	170M6463	170M6513	170M6563
		1000	140,000	945,000	125	170M6414	170M6464	170M6514	170M6564
		1100	190,000	1,300,000	130	170M6415	170M6465 ¹	170M6515	170M6565
		1250	290,000	1,950,000	140	170M6416	170M6466	170M6516	170M6566
		1400	370,000	2,450,000	155	170M6417	170M6467 ¹	170M6517	170M6567
		1500	460,000	3,100,000	160	170M6418	170M6468	170M6518	170M6568
		1600	580,000	3,900,000	160	170M6419	170M6469	170M6519	170M6569
		600 V a.c. (IEC) / 500 V a.c. (UL)	1800	880,000	5,250,000	165	170M6420 ²	170M6470	170M6520 ²
550 V a.c. (IEC) / 500 V a.c. (UL)	2000	1,150,000	6,350,000	175	170M6421	170M6471	170M6521	170M6571	

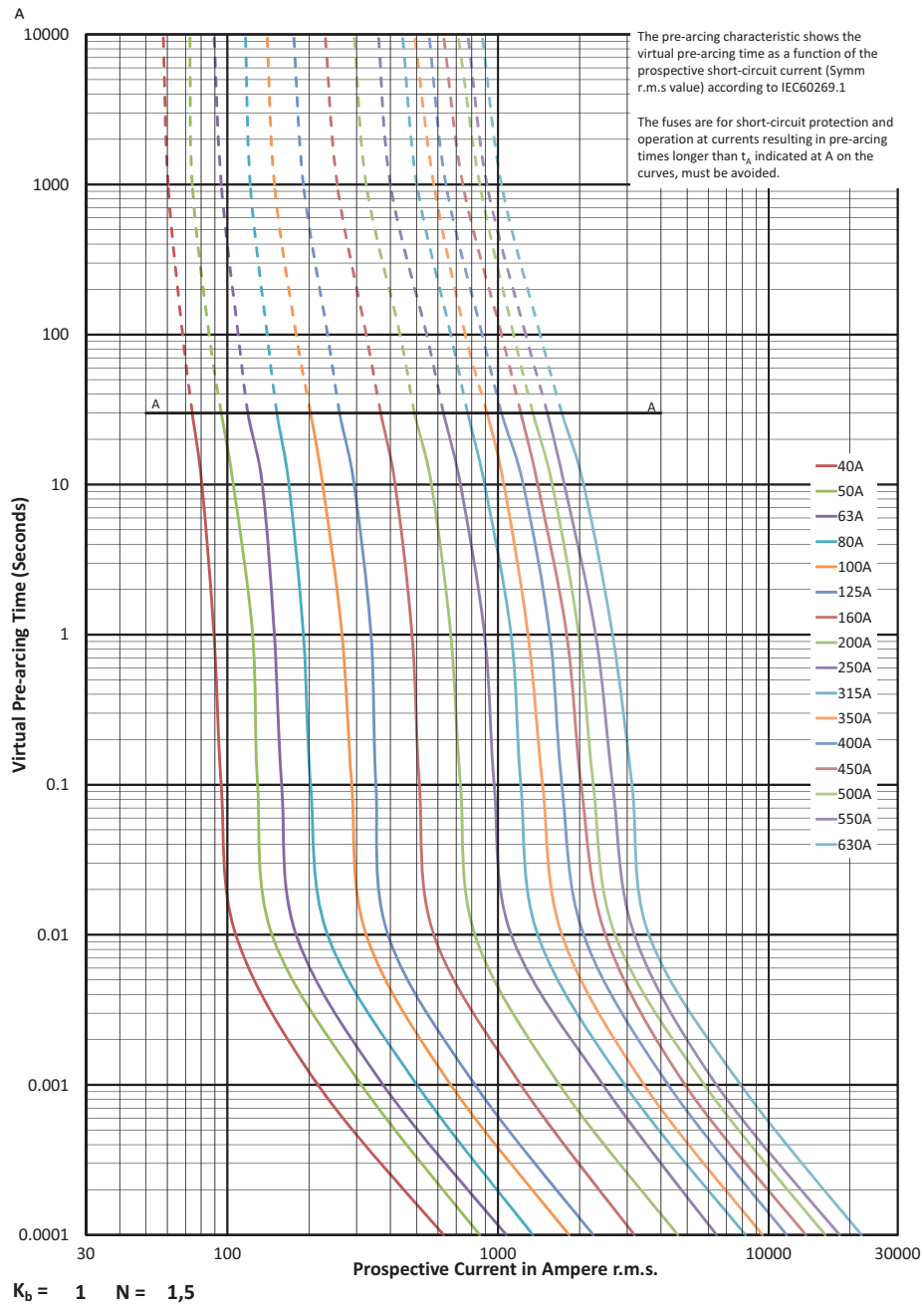
¹ 170M6465 and 170M6467 rated at 800 V d.c. UL 85kA 3ms TC when two fuses are connected in series

² 170M6420 and 170M6520 rated at 750 V d.c. 12XIn 130 kA when two fuses are connected in series

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

170M - Sizes 1* to 3, Flush end contact, 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

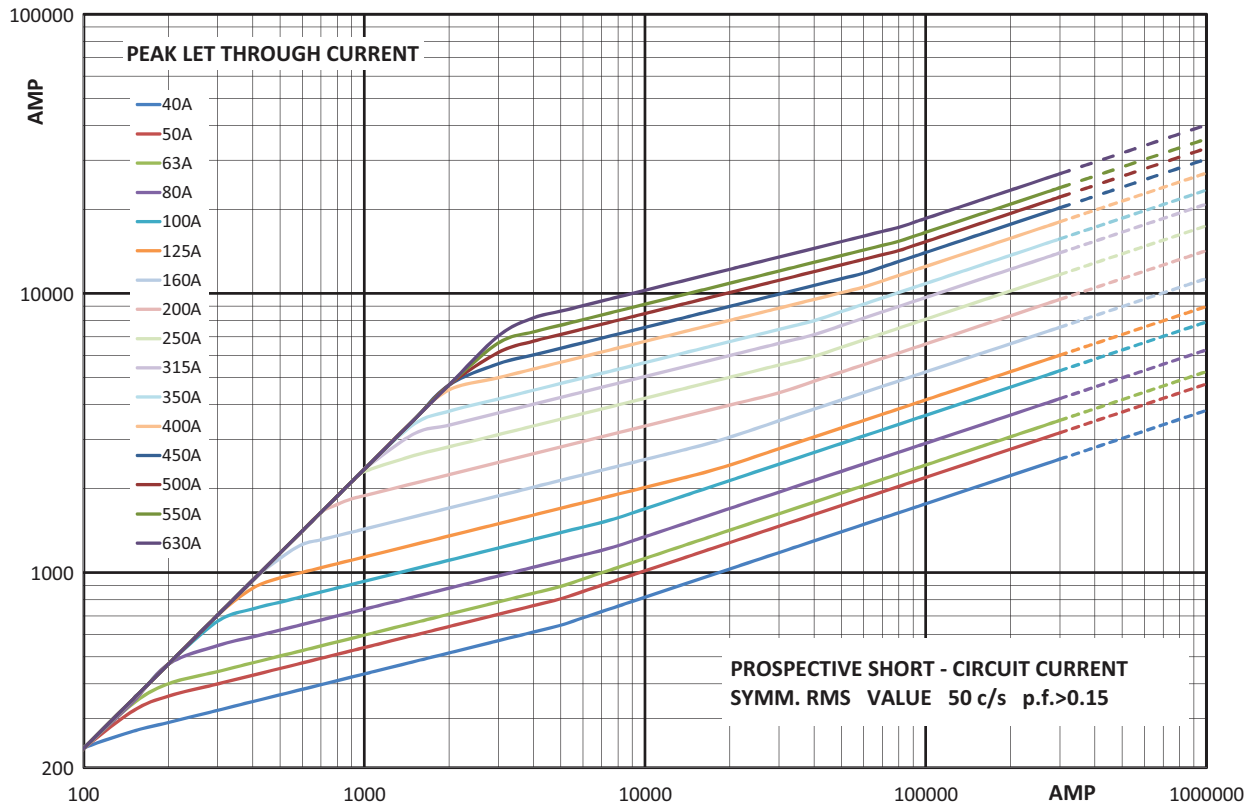


Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

Square body fuse links

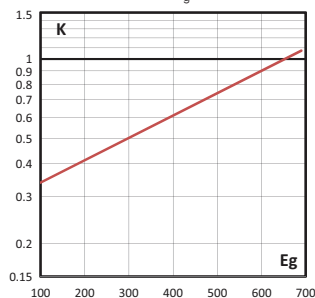
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

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



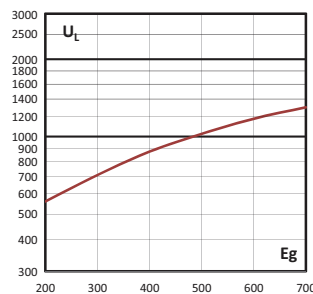
Total clearing I²t

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).



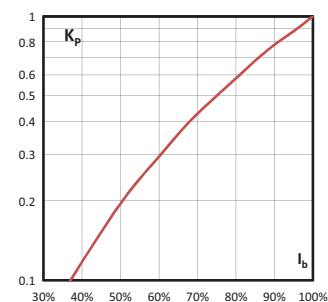
Arc voltage

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

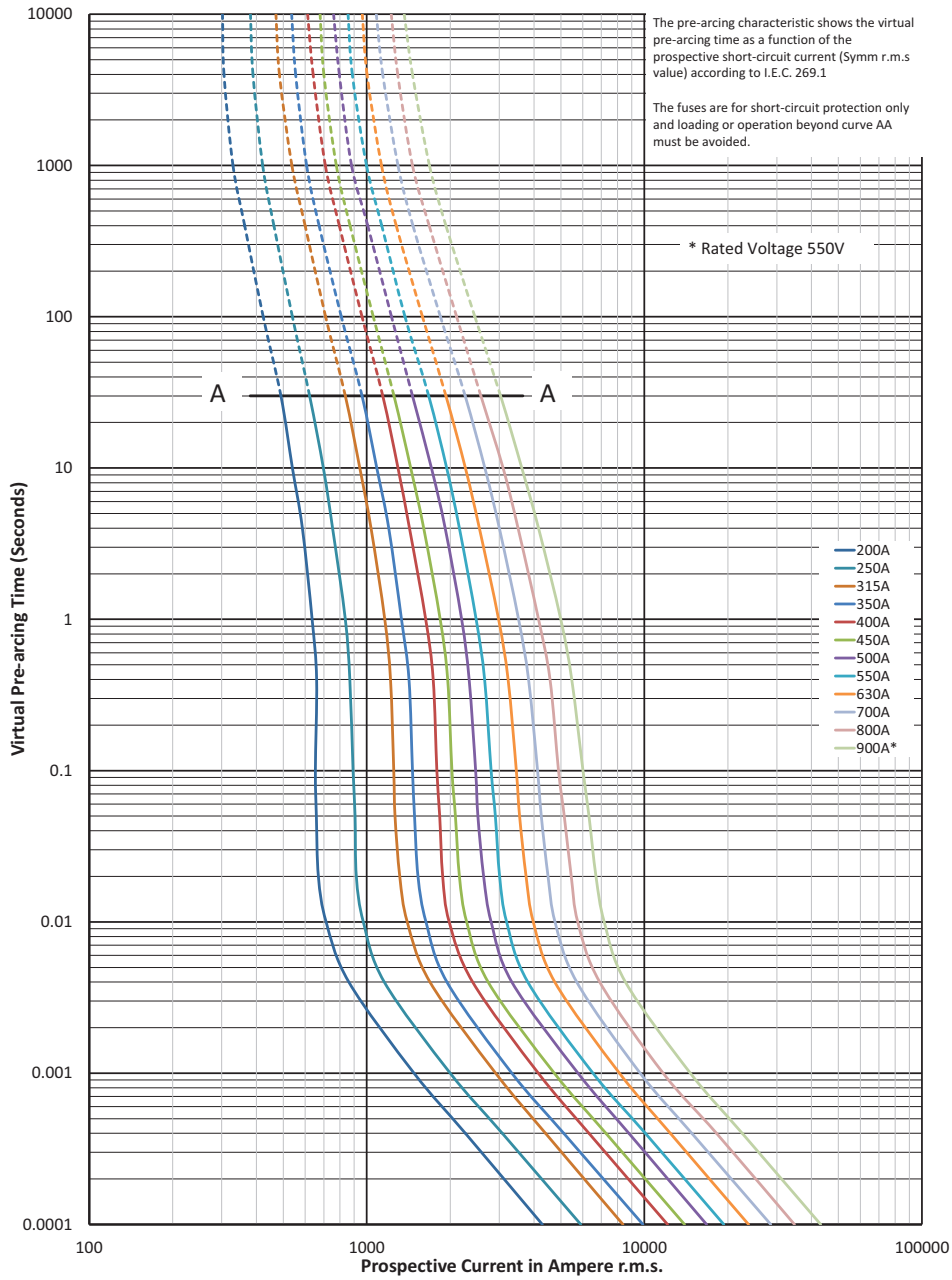
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



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

170M - Sizes 1* to 3, Flush end contact, 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



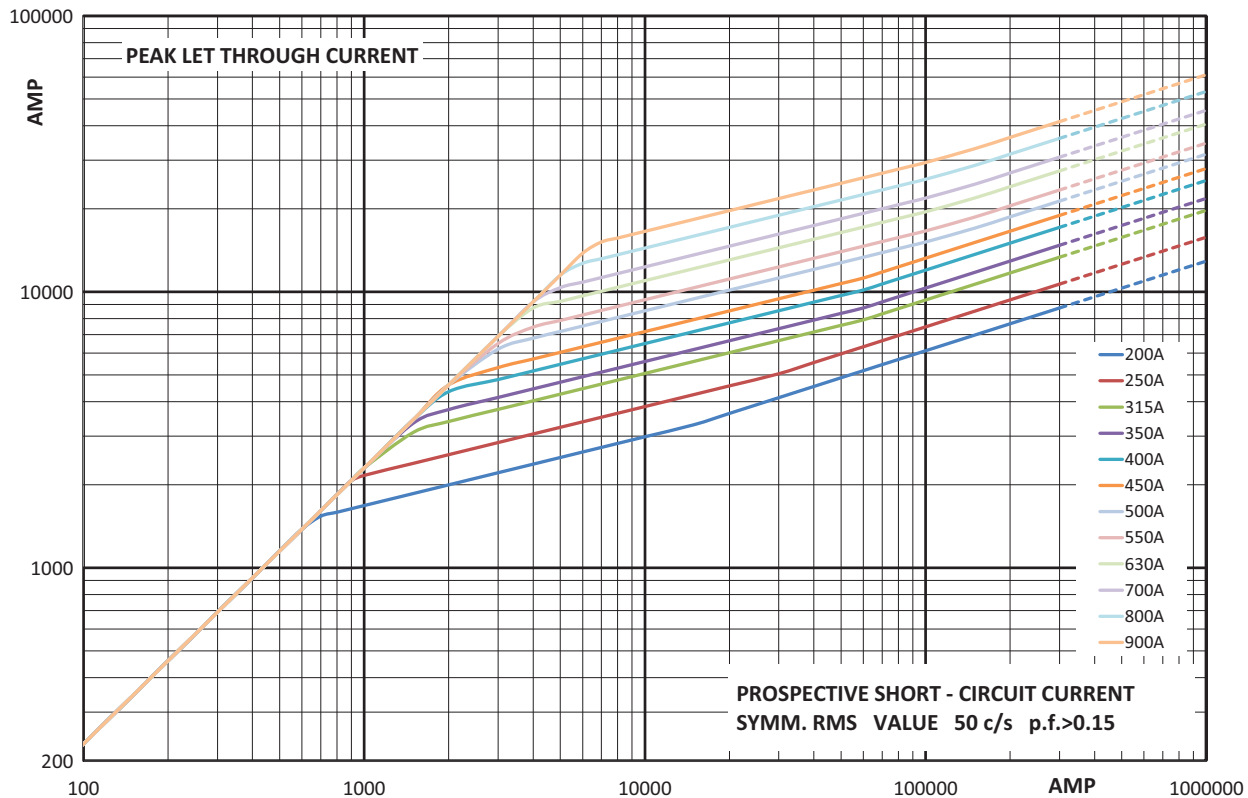
$K_b = 1$ $N = 1.5$

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

Square body fuse links

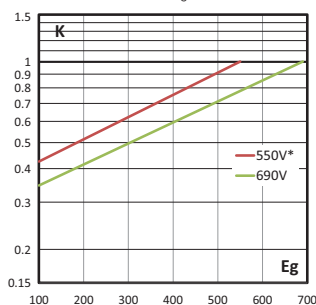
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

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



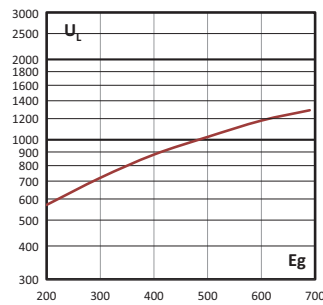
Total clearing I²t

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).



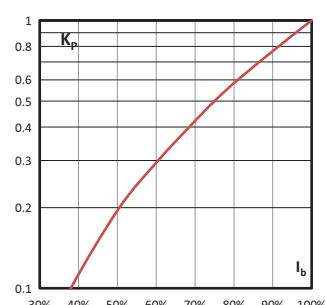
Arc voltage

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

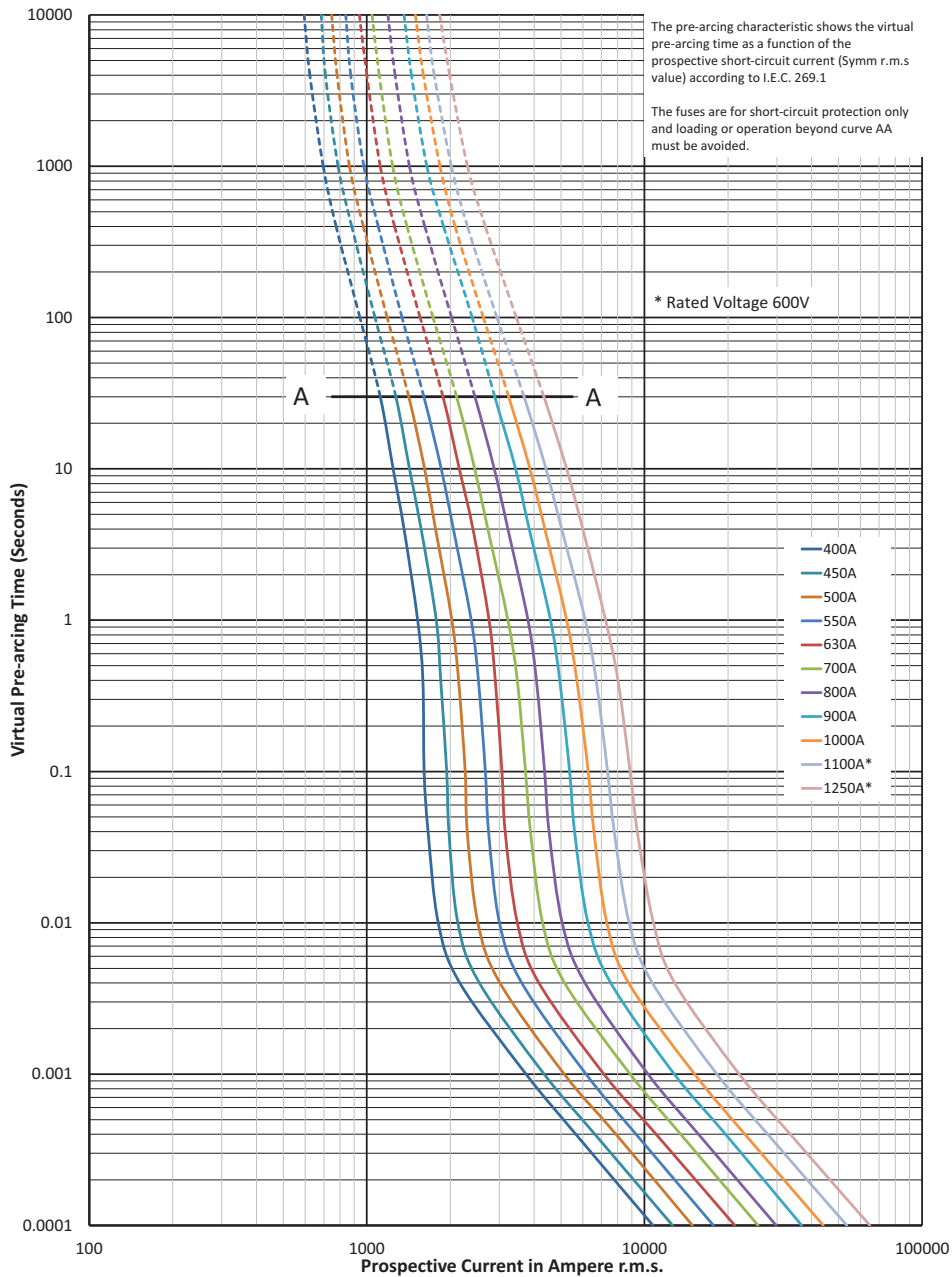
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



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

170M - Sizes 1* to 3, Flush end contact, 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

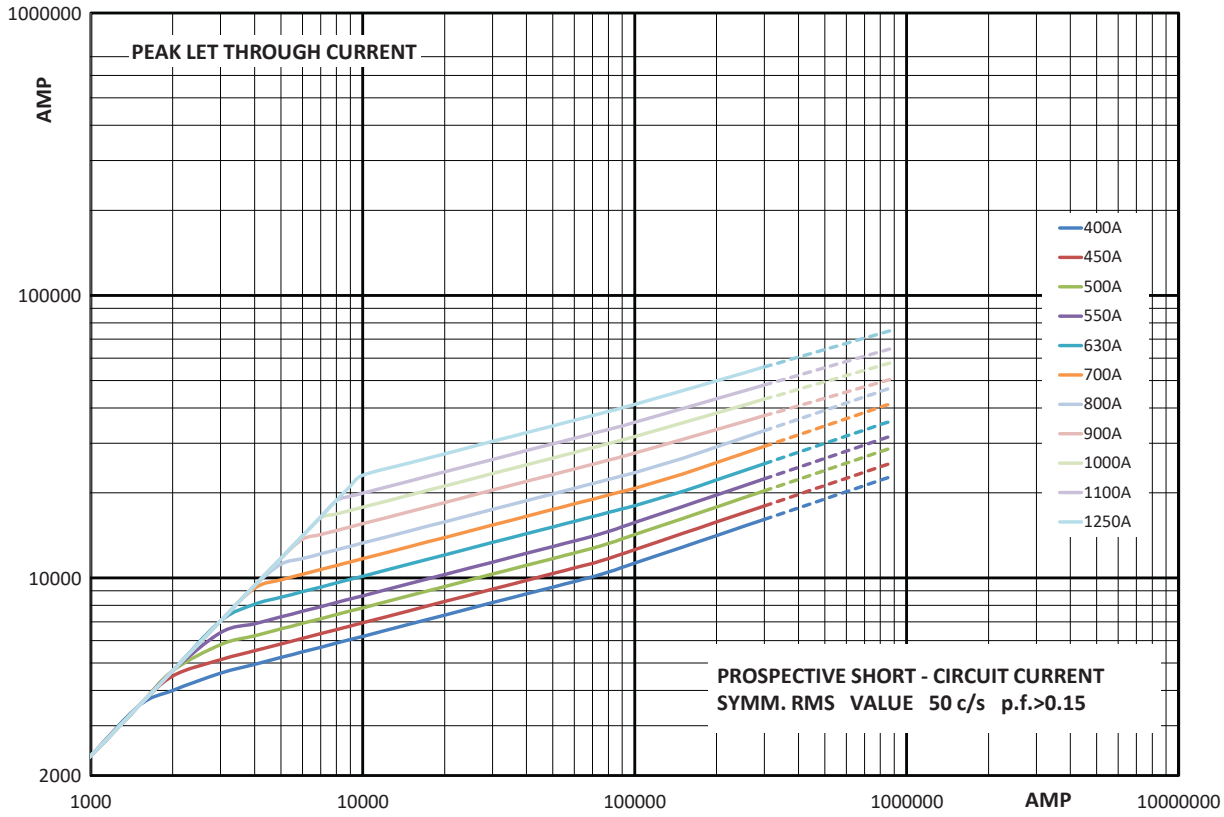


$K_b = 1$ $N = 1.5$

Square body fuse links

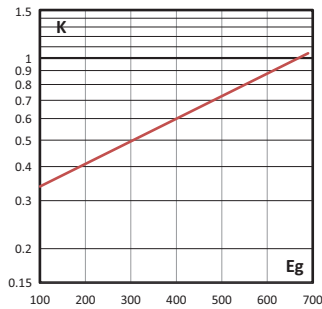
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

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



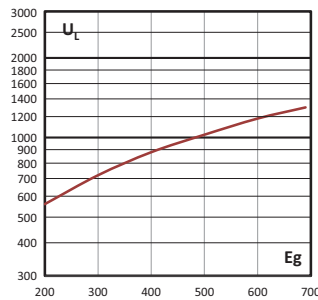
Total clearing I²t

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).



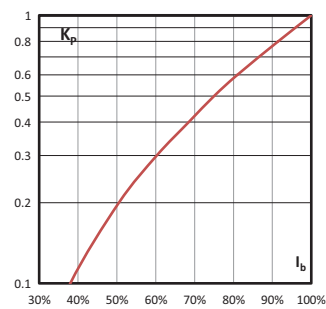
Arc voltage

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

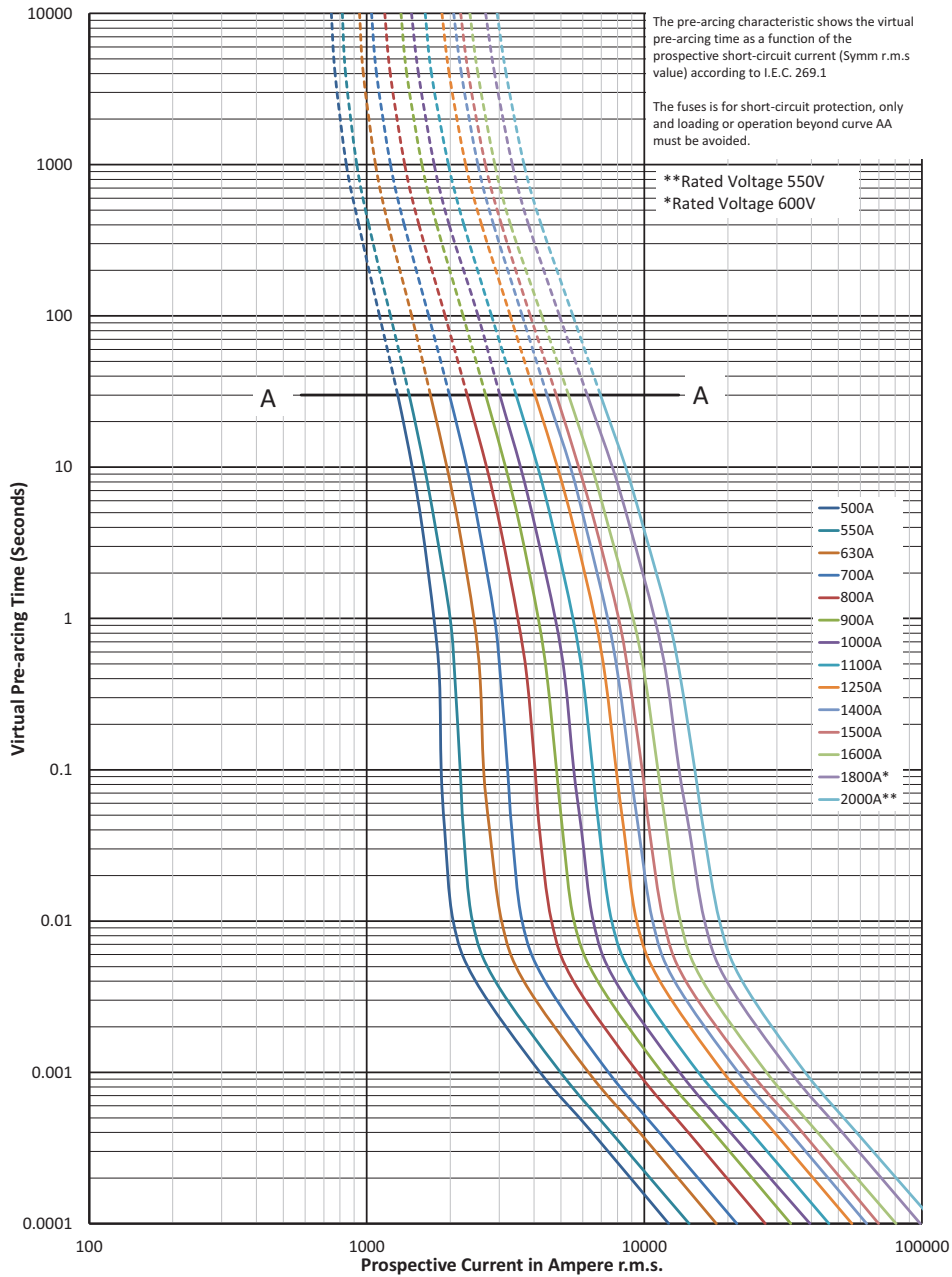
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



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

170M - Sizes 1* to 3, Flush end contact, 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



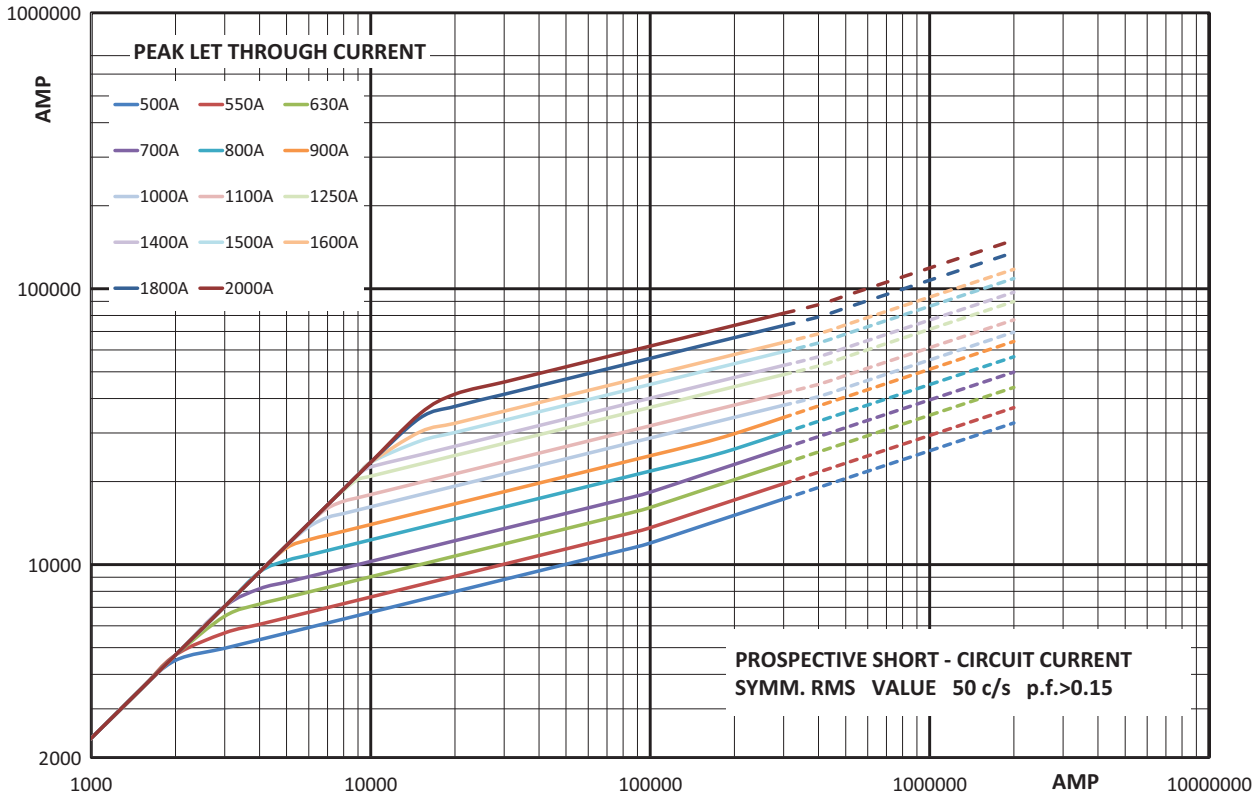
$K_b = 1 \quad N = 1.5$

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

Square body fuse links

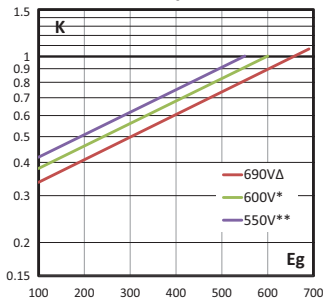
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

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



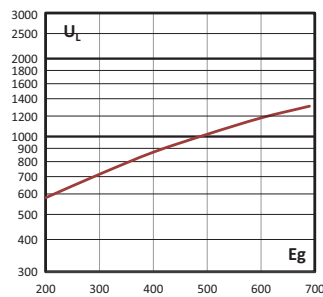
Total clearing I^2t

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).



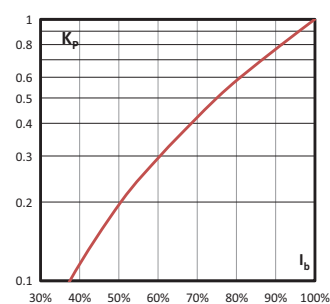
Arc voltage

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.



170M - sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Specifications

Description

Square body flush end contact high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

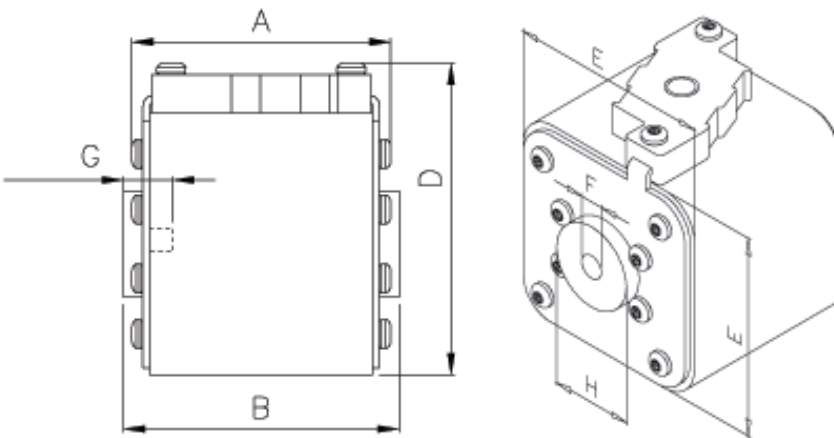
- Rated voltage:
 - 1000 V a.c. (IEC, 50 A to 1250 A)
 - 1000 V a.c. (UL, 250 A to 1100 A)
 - 900 V a.c. (IEC, 1400 A)
- Rated current: 50 A to 1400 A
- Breaking capacity:
 - 125kA RMS Sym. AC
 - Size 1 DC 750 V d.c. 50 kA IR
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4, UL Recognised for size 2 and 3 (only up to 1100 A)



Dimensions (mm)



Size	Type	A	B	D (max)	E	F	F ¹ (in)	G (min)	H
1*	BKN/75 + GKN/75	72.5	74	61	43	M8	5/16" 18 UNC-2B	5	17.5
1	BKN/75 + GKN/75	73.2	74	69	52	M8	5/16" 18 UNC-2B	8	20
2	BKN/75 + GKN/75	73.2	74.4	77	59	M10	3/8" 16 UNC-2B	10	24.5
3	BKN/75 + GKN/75	73.3	75.4	92	74	M12	1/2" 13 UNC-2B	10	30
3	BKN/90 + GKN/90	80.3	91.4	92	74	M12	1/2" 13 UNC-2B	10	30

¹ Valid for fuses type -GKN/-.

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

Square body fuse links

170M - sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

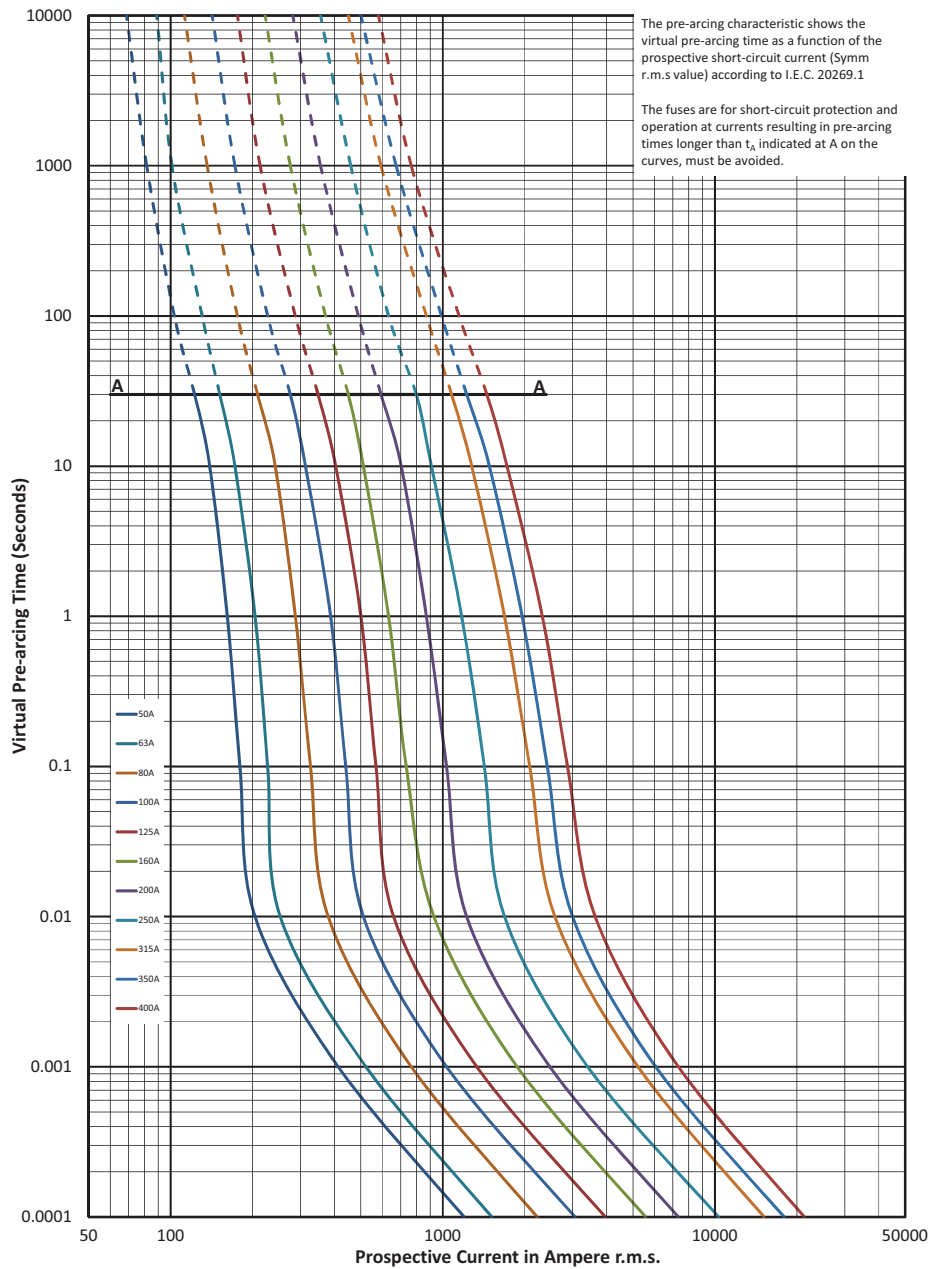
Catalogue numbers

Fuse link body size	Rated voltage	I ² t (A ² Sec)			Watts loss (W)	Catalogue numbers	
		Rated current (Amps)	Pre-arcing	Clearing at rated voltage		-BKN/- Type K indicator for micro	-GKN/- Type K indicator for micro
1*	1000 V a.c. (IEC)	50	135	815	20	170M3951	170M3921
		63	215	1300	25	170M3952	170M3922
		80	460	2750	30	170M3953	170M3923
		100	860	5100	35	170M3954	170M3924
		125	1450	8600	40	170M3955	170M3925
		160	2850	17,500	45	170M3956	170M3926
		200	4950	29,500	50	170M3957	170M3927
		250	9550	57,000	55	170M3958	170M3928
		315	21,500	130,000	65	170M3959	170M3929
		350	29,000	175,000	70	170M3960	170M3930
1	1000 V a.c. (IEC)	400	42,000	250,000	75	170M3961	170M3931
		160	2200	13,500	40	170M4951	170M4921
		200	4150	24,500	45	170M4952	170M4922
		250	7750	46,000	52	170M4953	170M4923
		315	16,500	98,500	60	170M4954	170M4924
	1000 V a.c. / 750 V d.c. (UL)	350	21,500	130,000	65	170M4955	170M4925
		400	31,000	185,000	70	170M4956	170M4926
		450	44,500	265,000	80	170M4957	170M4927
		500	63,000	375,000	85	170M4958	170M4928
		550	84,500	500,000	90	170M4959	170M4929
2	1000 V a.c. (IEC/UL)	630	125,000	755,000	98	170M4960	170M4930
		250	6750	40,000	65	170M5952	170M5922
		315	13,500	81,500	75	170M5953	170M5923
		350	16,500	99,000	80	170M5954	170M5924
		400	26,000	155,000	85	170M5955	170M5925
		450	35,500	210,000	90	170M5956	170M5926
		500	49,500	295,000	95	170M5957	170M5927
		550	66,000	390,000	100	170M5958	170M5928
		630	93,500	555,000	110	170M5959	170M5929
		700	130,000	770,000	115	170M5960	170M5930
3	1000 V a.c. (IEC/UL)	800	195,000	1,200,000	125	170M5961	170M5931
		315	9200	54,500	90	170M8600	170M8500
		350	13,000	77,500	95	170M8601	170M8501
		400	19,000	115,000	105	170M8602	170M8502
		450	27,000	160,000	107	170M8603	170M8503
		500	37,500	225,000	110	170M8604	170M8504
		550	52,000	310,000	115	170M8605	170M8505
		630	82,500	490,000	120	170M8606	170M8506
		700	115,000	700,000	125	170M8607	170M8507
		800	170,000	1,050,000	135	170M8608	170M8508
1000 V a.c. (IEC)	900	250,000	1,500,000	145	170M8609	170M8509	
	1000	340,000	2,050,000	150	170M8610	170M8510	
	1100	460,000	2,750,000	155	170M8611	170M8511	
	1250	575,000	3,400,000	175	170M8612 ¹	170M8512 ¹	
900 V a.c. (IEC)	1400	795,000	4,200,000	185	170M8613 ¹	170M8513 ¹	

¹ Overall length is 90 mm, for all other fuse links the overall length is 75 mm.

170M - sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

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



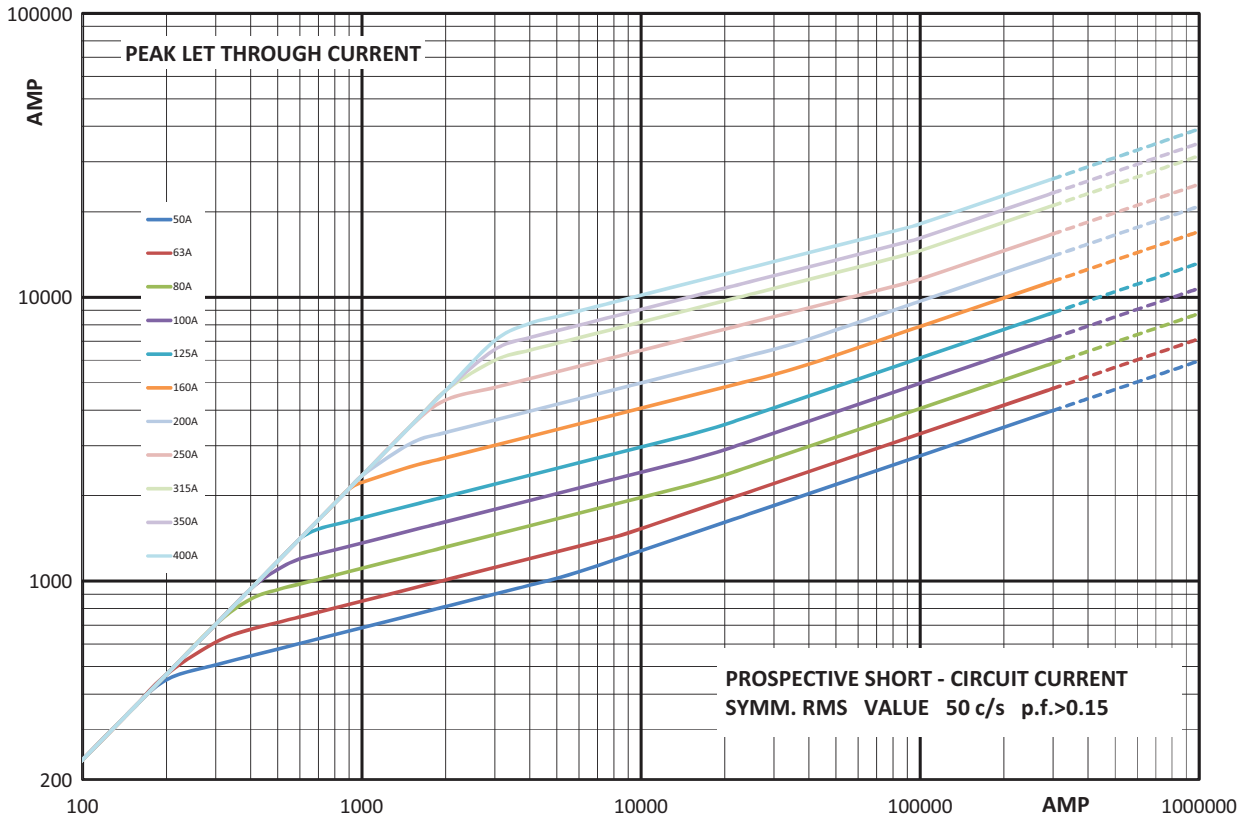
$K_b = 1$ $N = 1,6$

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

Square body fuse links

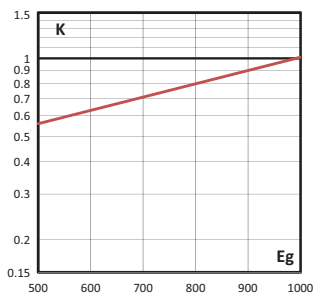
170M - sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

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



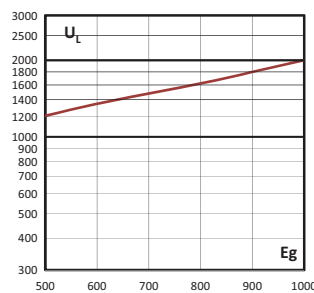
Total clearing I²t

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).



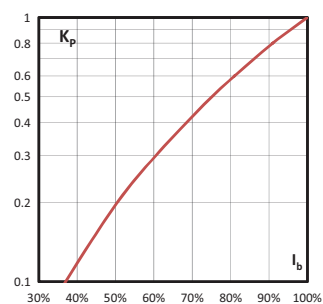
Arc voltage

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.



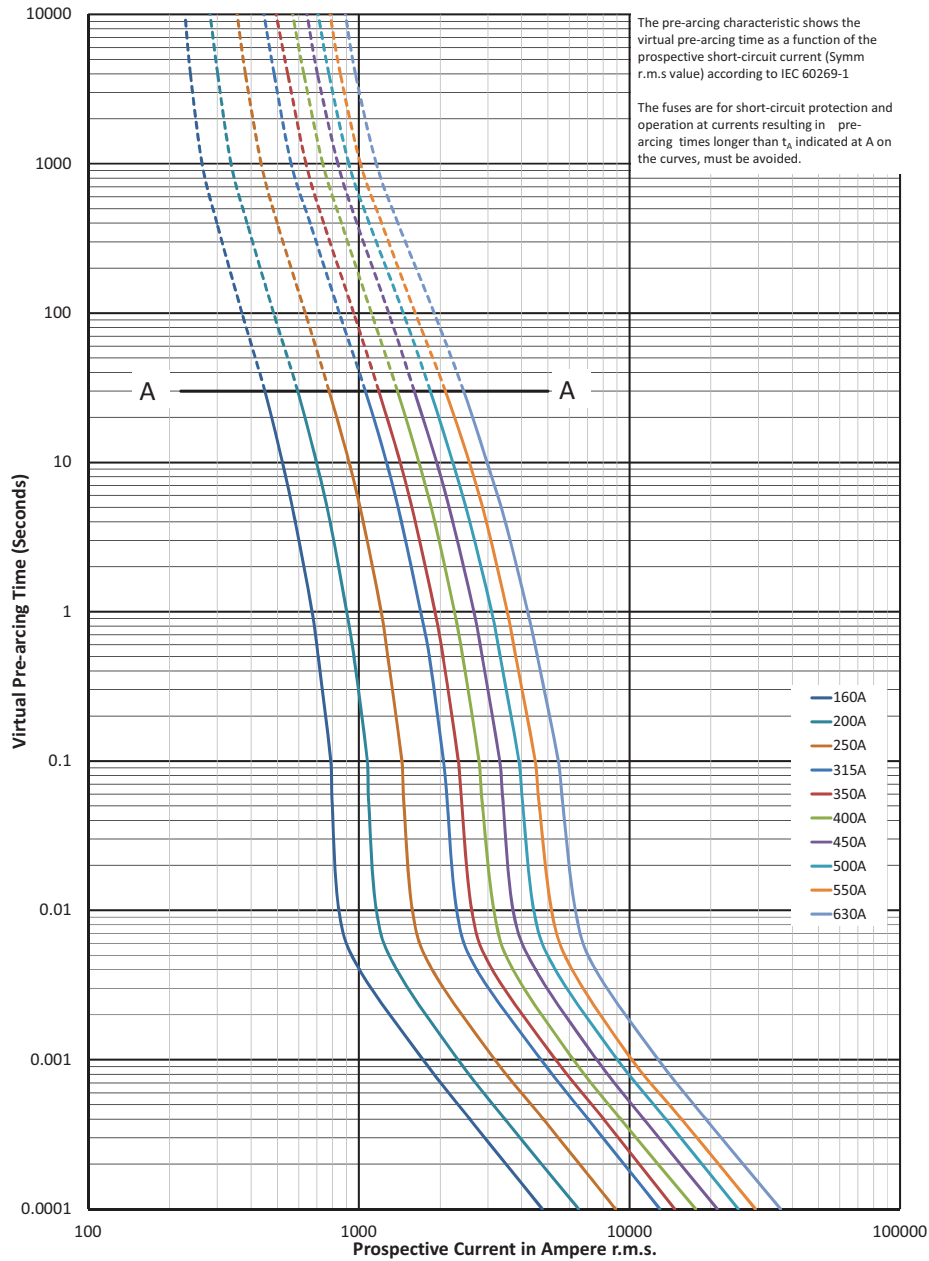
Watts losses

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.



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

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

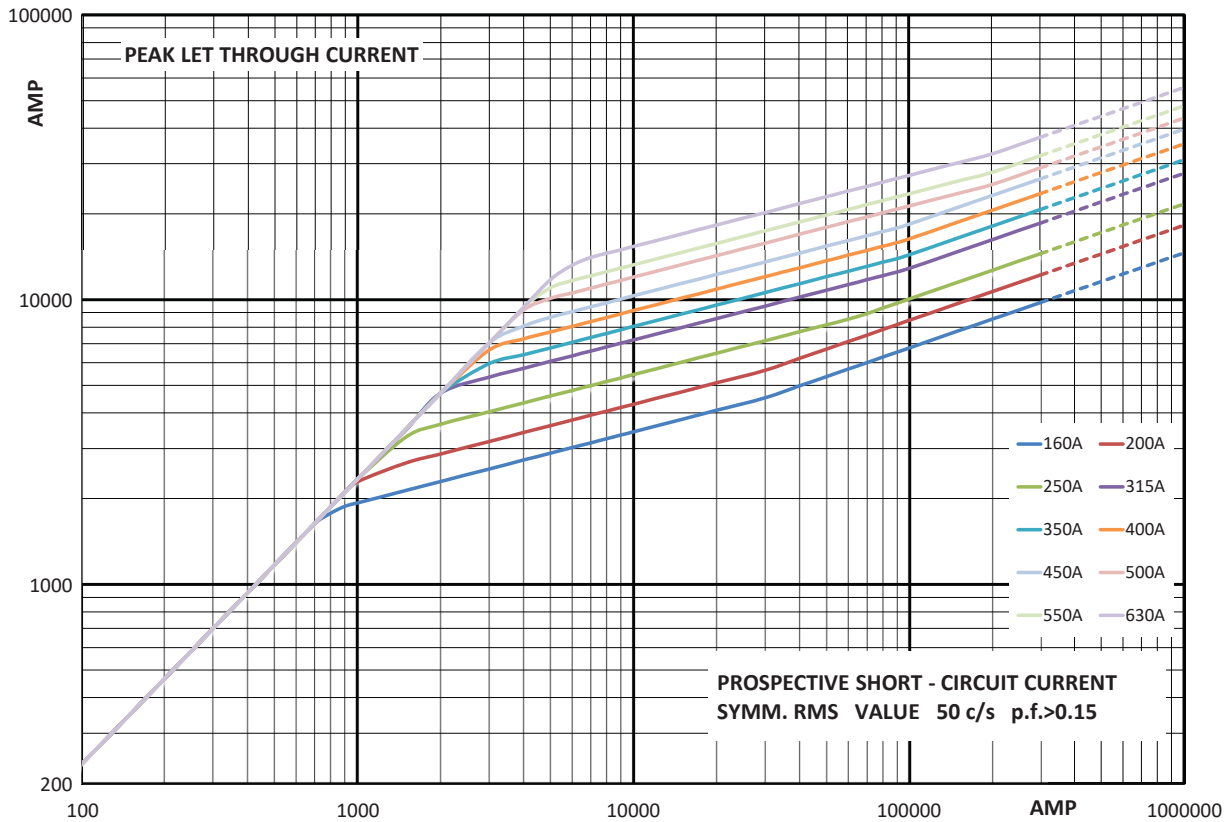


Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

Square body fuse links

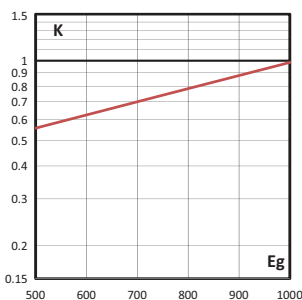
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

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



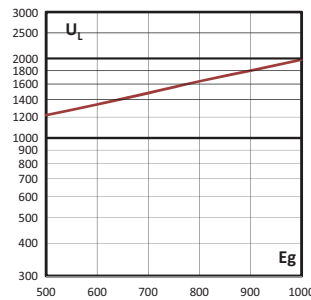
Total clearing I^2t

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).



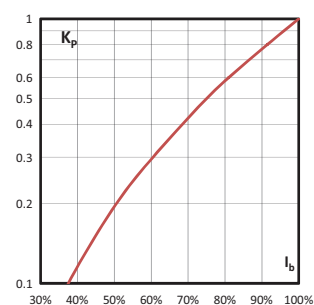
Arc voltage

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.



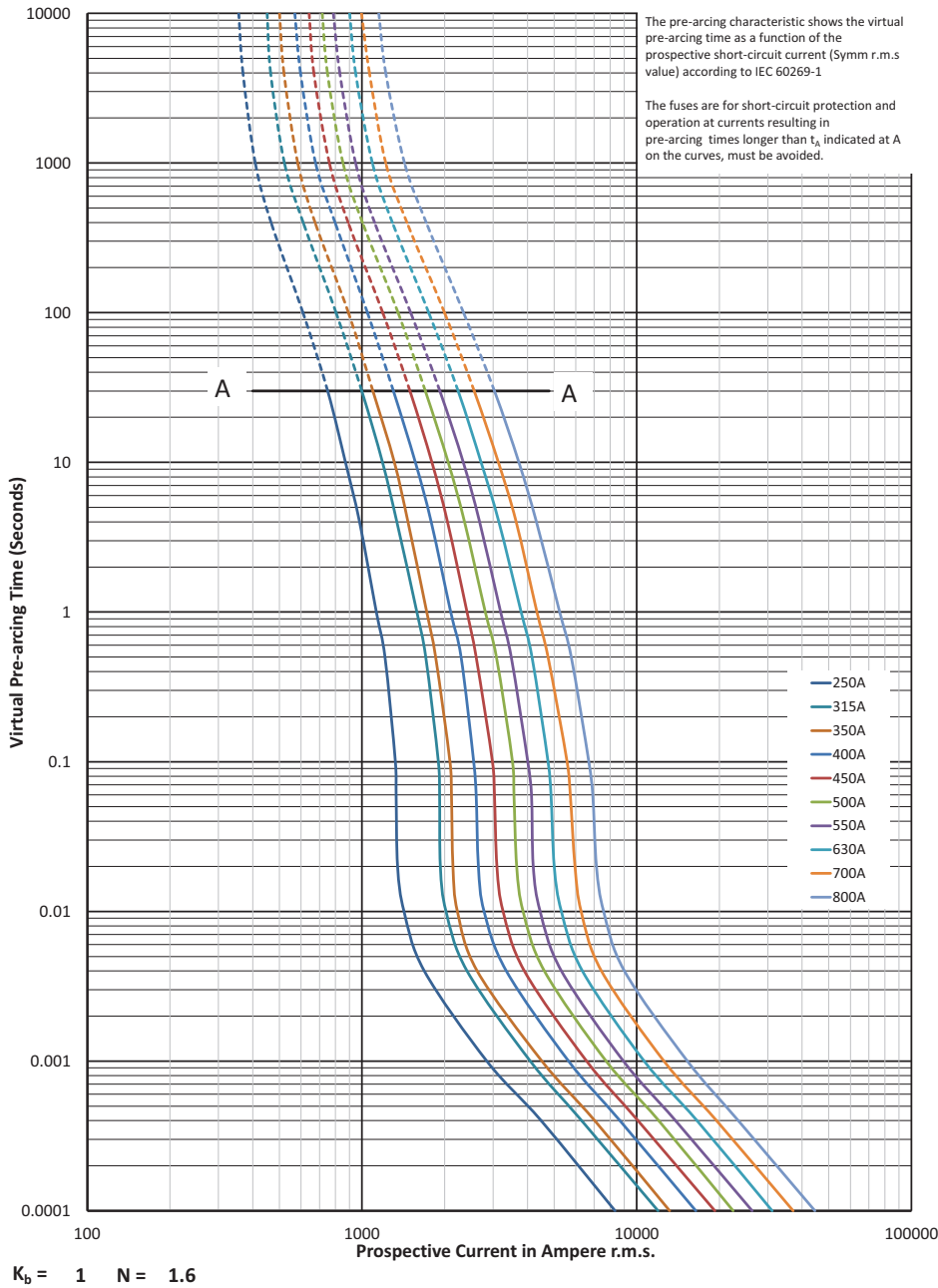
Watts losses

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.



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

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

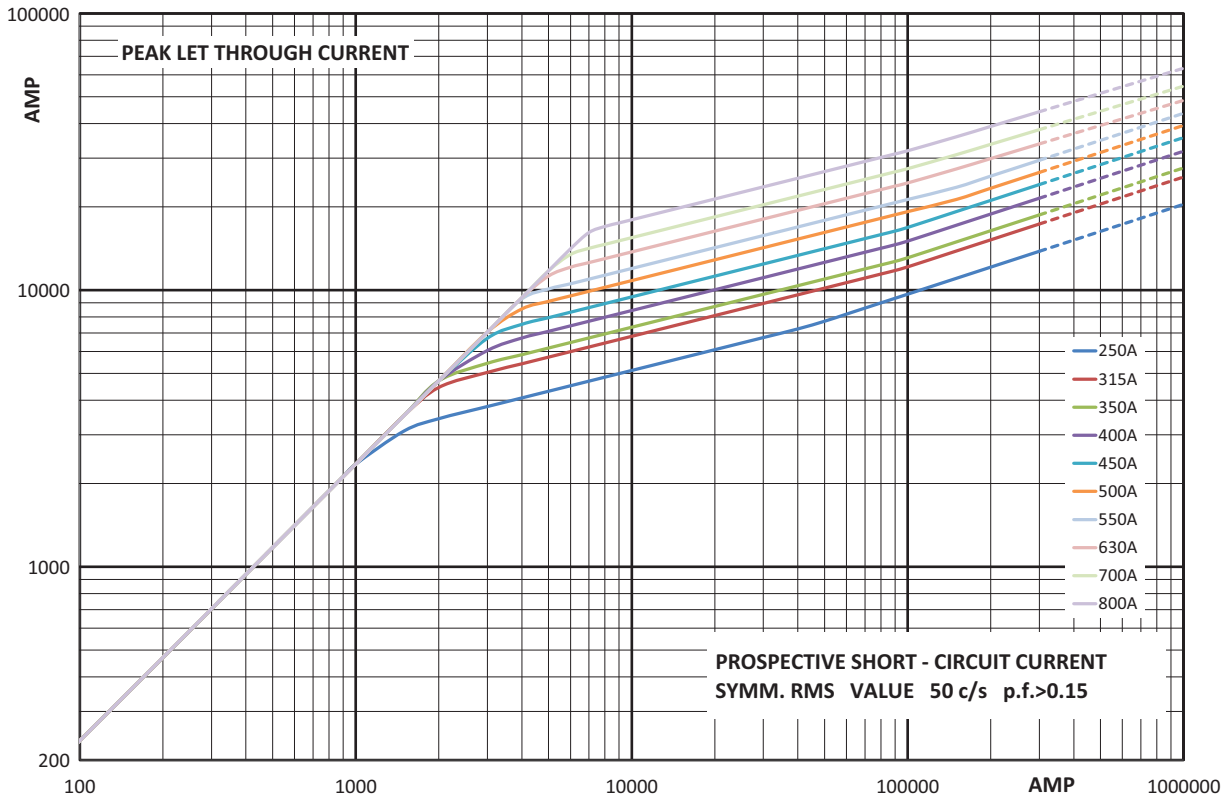


Data sheets: 170K8564 (Size 1*), 170K8566 (Size 1), 170K8568 (Size 2), 170K8570 (Size 3)

Square body fuse links

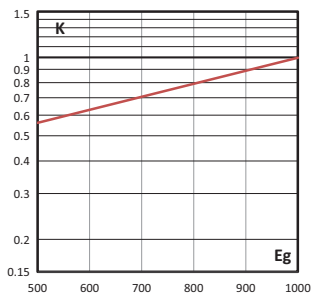
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

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



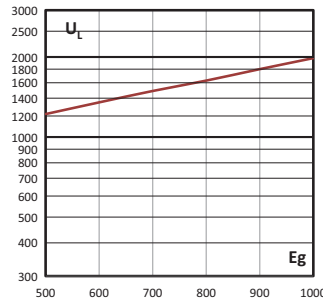
Total clearing I^2t

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).



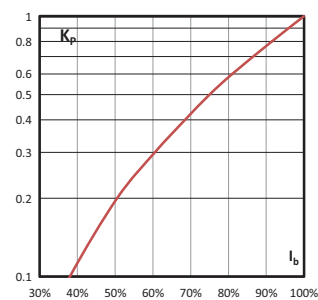
Arc voltage

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.



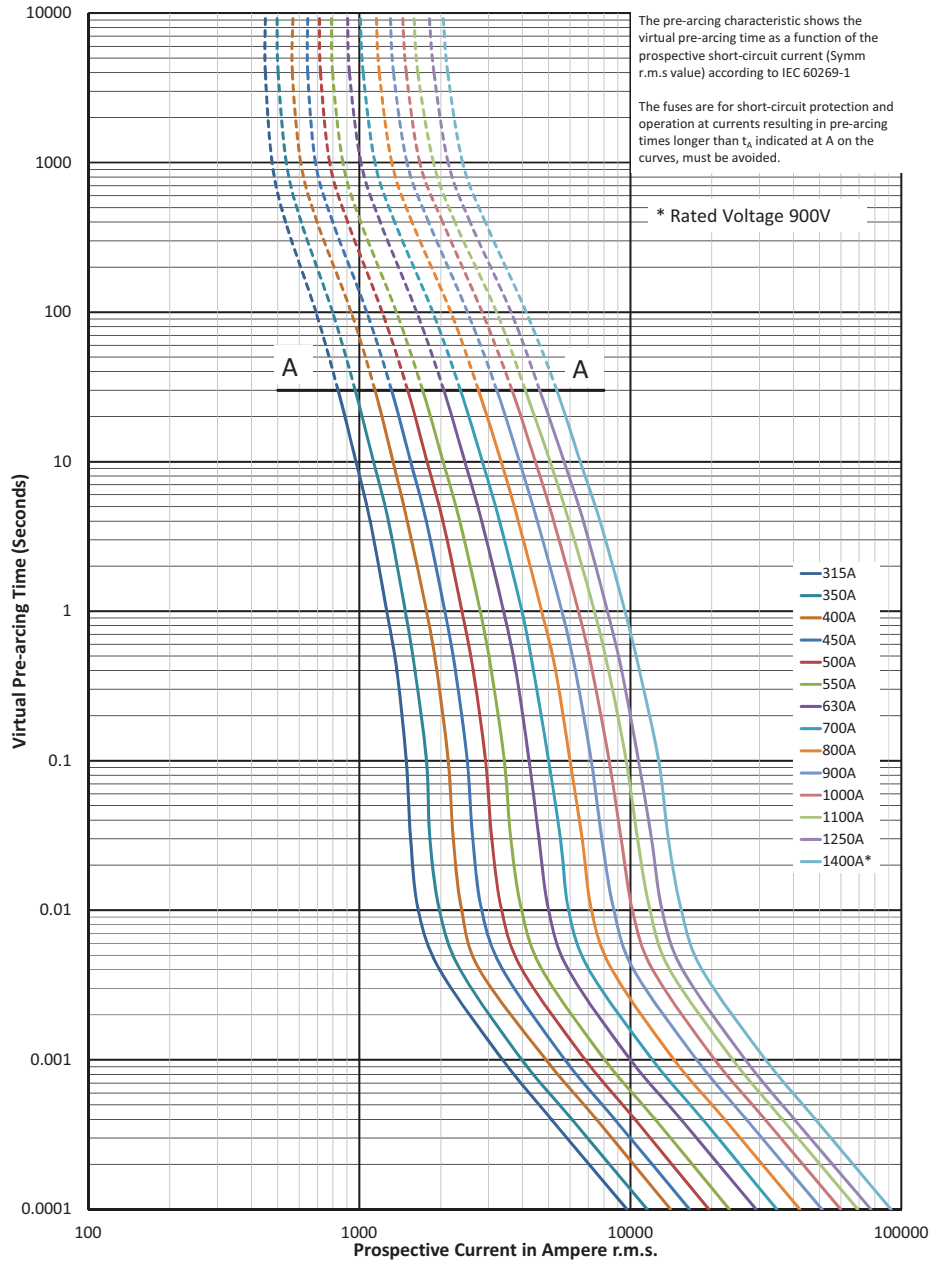
Watts losses

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.



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

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



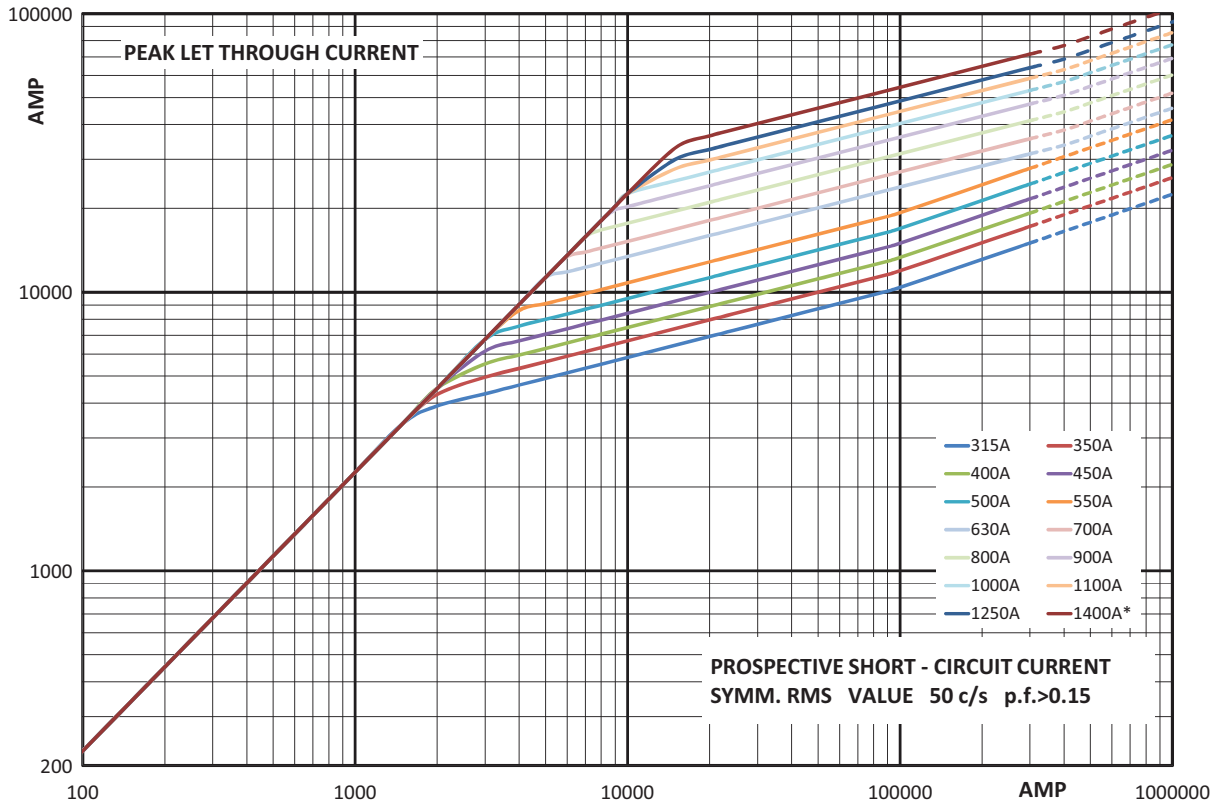
$K_b = 1$ $N = 1.6$

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

Square body fuse links

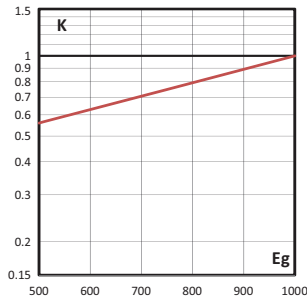
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

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



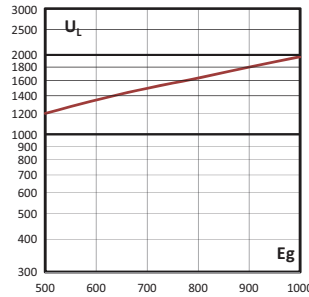
Total clearing I²t

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).



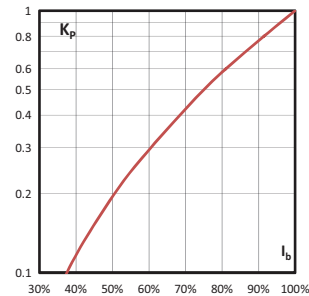
Arc voltage

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, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Specifications

Description

Square body flush end contact high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

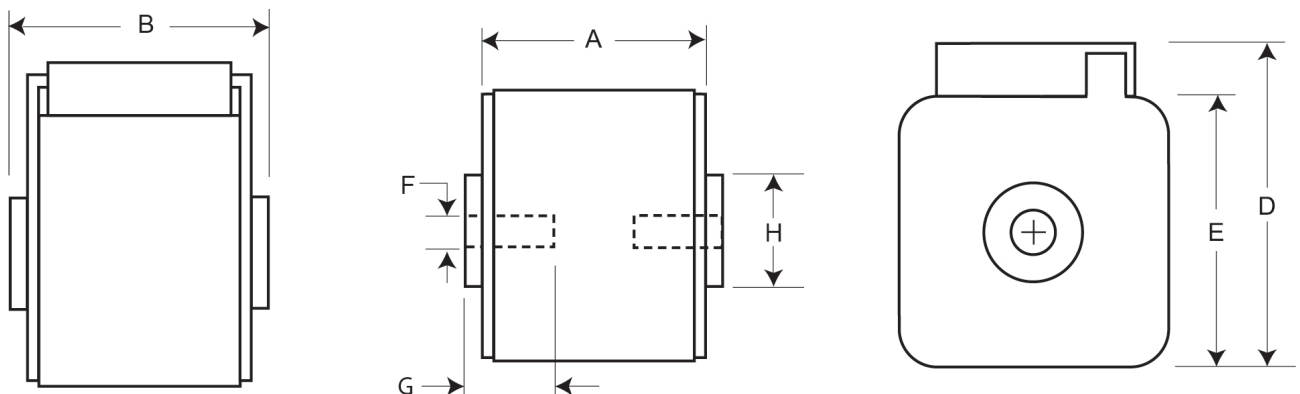
- Rated voltage:
 - 1250 V a.c. (IEC)
 - 1300 V a.c. (UL)
- Rated current: 50 A to 1400 A
- Breaking capacity: 100 kA RMS Sym
- Operating class: aR



Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4. Consult Eaton for UL Recognition/CSA Component Acceptance Status

Dimensions (mm)



Size	Type	A	B	D	E	F	F' (in)	Min G	H
1*	BKN + GKN/75	74	75	59	45	M8	5/16" -18 UNC-2B	5	Ø17
1*	BKN/80	80	81	59	45	M8		5	Ø17
1	BKN + GKN/75	74	75	69	53	M8	5/16" -18 UNC-2B	8	Ø20
1	BKN/80	80	81	69	53	M8		8	Ø20
2	BKN + GKN/75	74	75	77	61	M10	3/8" -16 UNC-2B	10	Ø24
2	BKN/80	80	81	77	61	M10		10	Ø24
2	BKN + GKN/90	80	91	77	61	M10	3/8" -16 UNC-2B	10	Ø24
3	BKN + GKN/75	74	76	92	76	M12	1/2" -13 UNC-2B	10	Ø30
3	BKN/80	81	83	92	76	M12		10	Ø30
3	BKN + GKN/90	81	91	92	76	M12	1/2" -13 UNC-2B	10	Ø30

¹ Valid for fuses type -GKN/-.

Square body fuse links

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

Fuse link body size	Rated voltage	I _t (A ² Sec)				Watts loss (W)	Catalogue numbers				
		Rated current (Amps)	Pre-arcing	Clearing at 1000 V a.c.	Clearing at 1250 V a.c.		-BKN/75 Type K indicator for micro	-BKN/80 Type K indicator for micro	-BKN/90 Type K Indicator for micro	-GKN/75 Type K Indicator for micro	-GKN/90 Type K Indicator for micro
1*	1250 V a.c. (IEC) 1300 V a.c. (UL)	50	135	815	1100	15	170M3388 ⁶	170M3438		170M3488 ⁶	
		63	215	1300	1750	20	170M3389 ⁶	170M3439		170M3489 ⁶	
		80	420	2500	3350	25	170M3390 ⁶	170M3440		170M3490 ⁶	
		100	750	4450	5950	30	170M3391 ⁶	170M3441		170M3491 ⁶	
		125	1450	9000	11,500	35	170M3392 ⁶	170M3442		170M3492 ⁶	
		160	2600	16,000	21,000	40	170M3393 ⁶	170M3443		170M3493 ⁶	
		200	5150	31,000	41,000	45	170M3394 ⁶	170M3444		170M3494 ⁶	
		250	9200	54,500	73,000	55	170M3395 ⁶	170M3445		170M3495 ⁶	
		315	18,500	115,000	150,000	60	170M3396 ⁶	170M3446		170M3496 ⁶	
		350	27,000	165,000	220,000	65	170M3397 ⁶	170M3447		170M3497 ⁶	
1	1250 V a.c. (IEC) 1300 V a.c. (UL)	400	53,000	265,000	335,000	70		170M3448			
		160	1900	11,500	15,500	45	170M4388 ⁶	170M4438 ⁶		170M4488 ⁶	
		200	3800	22,500	30,000	50	170M4389 ⁶	170M4439 ⁶		170M4489 ⁶	
		250	7750	46,000	61,500	60	170M4390 ⁶	170M4440 ⁶		170M4490 ⁶	
		315	15,000	90,000	120,000	65	170M4391 ⁶	170M4441 ⁶		170M4491 ⁶	
		350	20,000	125,000	165,000	70	170M4392 ⁶	170M4442 ⁶		170M4492 ⁶	
		400	29,500	175,000	235,000	75	170M4393 ⁶	170M4443 ⁶		170M4493 ⁶	
		450	42,000	250,000	335,000	80	170M4394 ⁶	170M4444 ⁶		170M4494 ⁶	
		500	69,500	340,000	435,000	85	170M4395 ⁴	170M4445		170M4495 ⁴	
		550	95,000	465,000	590,000	95	170M4396 ⁵	170M4446		170M4496 ⁵	
2	1250 V a.c. (IEC) 1300 V a.c. (UL)	630	130,000	660,000	N/A	110	170M4397 ⁵	170M4447 ⁴		170M4497 ⁵	
		250	6500	38,500	51,500	65	170M5388	170M5438		170M5588	
		280	9350	55,500	74,500	70	170M5389	170M5439		170M5589	
		315	13,000	77,500	105,000	75	170M5390	170M5440		170M5590	
		350	16,500	97,500	135,000	80	170M5391	170M5441		170M5591	
		400	23,000	140,000	180,000	85	170M5392	170M5442		170M5592	
		450	34,000	205,000	270,000	90	170M5393	170M5443		170M5593	
		500	48,000	285,000	380,000	95	170M5394	170M5444	170M5494	170M5594	170M5644
		550	62,000	370,000	495,000	100	170M5395	170M5445	170M5495	170M5595	170M5645
		630	115,000	575,000	730,000	120	170M5396 ⁴	170M5446	170M5496	170M5596 ⁴	170M5646
3	1250 V a.c. (IEC) 1300 V a.c. (UL)	700	160,000	795,000	1,050,000	125	170M5397 ⁵	170M5447 ⁷	170M5497	170M5597 ⁵	170M5647
		800	245,000	1,200,000	1,550,000	130	170M5398 ⁵	170M5448 ⁸	170M5498	170M5598 ⁵	170M5648
		900	360,000	1,750,000	N/A	135			170M5499 ⁹		170M5649 ⁹
		1000	480,000	2,350,000	N/A	145			170M5500 ⁹		170M5650 ⁹
		315	9500	58,000	77,500	85	170M6338 ⁶	170M6538 ⁶		170M6588	
		350	13,500	81,500	110,000	90	170M6339 ⁶	170M6539 ⁶		170M6589	
		400	19,500	120,000	160,000	95	170M6340 ⁶	170M6540 ⁶		170M6590	
		450	31,000	185,000	245,000	100	170M6341 ⁶	170M6541 ⁶		170M6591	
		500	39,000	235,000	310,000	105	170M6342 ⁶	170M6542 ⁶		170M6592	
		550	55,000	325,000	435,000	110	170M6343 ⁶	170M6543 ⁶		170M6593	
3	1250 V a.c. (IEC) 1300 V a.c. (UL)	630	83,500	495,000	665,000	115	170M6344 ⁶	170M6544 ⁶	170M6494 ⁶	170M6594	170M6644
		700	115,000	705,000	940,000	120	170M6345	170M6545 ⁶	170M6495 ⁶	170M6595	170M6645 ⁶
		800	205,000	995,000	1,300,000	125	170M6346 ⁴	170M6546 ⁶	170M6496 ¹²	170M6596 ⁴	170M6646 ¹²
		900	305,000	1,500,000	1,900,000	130	170M6347 ⁵	170M6547 ¹⁰	170M6497 ¹²	170M6597 ⁵	170M6647 ¹²
		1000	450,000	2,150,000	2,750,000	135	170M6348 ⁵	170M6548 ¹⁰	170M6498 ¹²	170M6598 ⁵	170M6648 ¹²
		1100	575,000	2,800,000	3,600,000	160	170M6349 ⁵	170M6549 ¹¹	170M6499 ¹²	170M6599 ⁵	170M6649 ¹²
		1250	810,000	3,950,000	N/A	170			170M6500 ¹³		170M6650 ⁴
		1400	1,250,000	6,000,000	N/A	175			170M6501 ¹³		170M6651 ⁴

¹ Rated voltage 1100 V a.c. (IEC), 1000 V a.c. (UL).

² Rated voltage 1000 V a.c. (IEC and UL).

³ Rated voltage 1100 V a.c. (IEC and UL).

⁴ Rated voltage (IEC) 1100 V a.c.

⁵ Rated voltage (IEC) 1000 V a.c.

⁶ Rated voltage 900 V d.c. 8XIn 90 kA

⁷ Rated voltage 1100 V a.c. (IEC), 1000 V a.c. (UL), and 1000 V d.c. 8XIn 70 kA

⁸ Rated voltage 1000 V a.c. (IEC and UL), and 1000 V d.c. 8XIn 70 kA

⁹ Rated voltage 1100 V a.c. (IEC and UL), and 900 V d.c. 9.5XIn 80 kA

¹⁰ Rated voltage 1100 V a.c. (IEC), 1000 V a.c. (UL), and 900 V d.c. 8XIn 90 kA

¹¹ Rated voltage 1000 V a.c. (IEC and UL), and 900 V d.c. 8XIn 90 kA

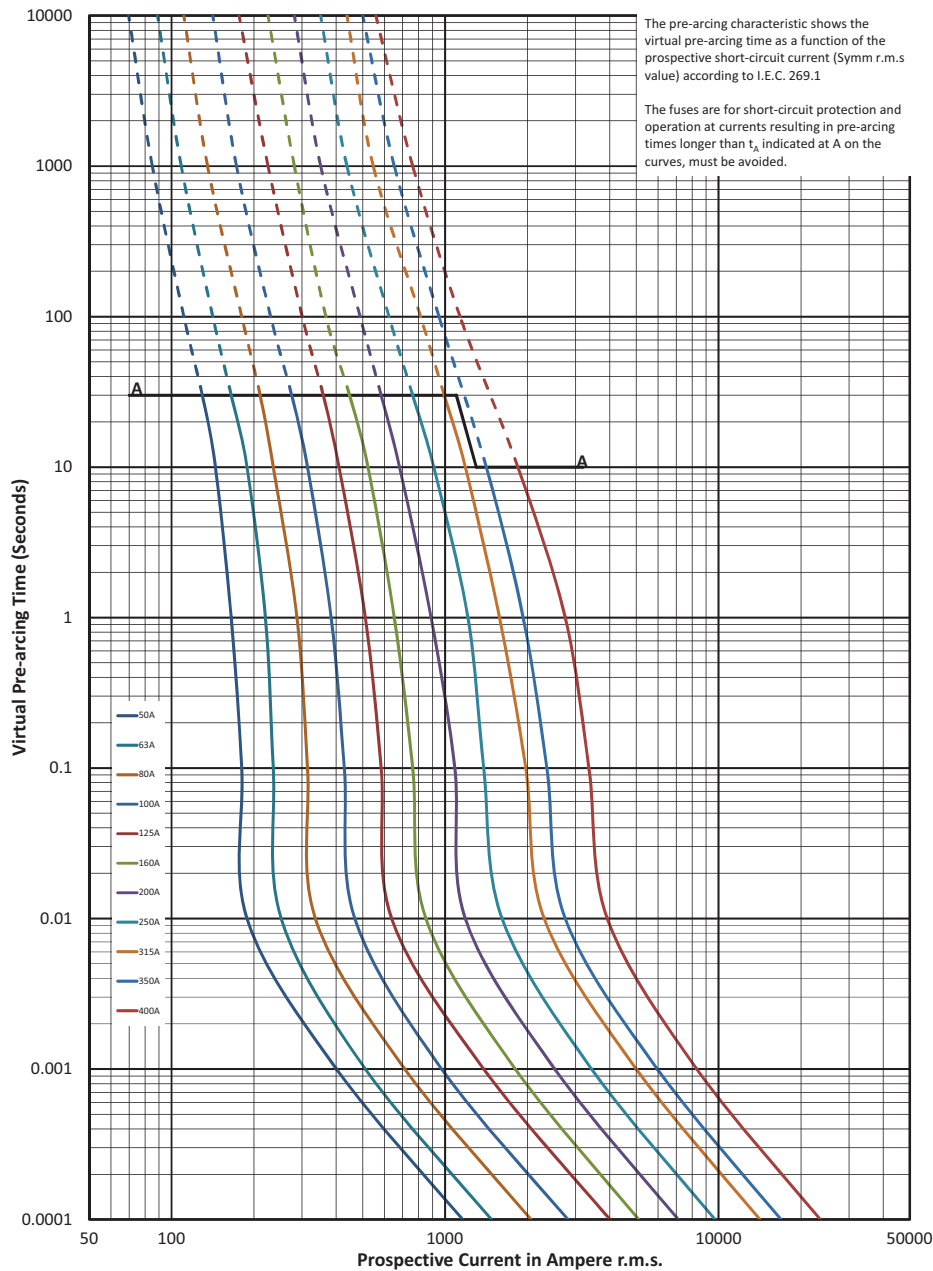
¹² Rated voltage 1000 V d.c. 10XIn 91 kA

¹³ Rated voltage 1100 V a.c. (IEC and UL), and 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, Flush end contact, 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



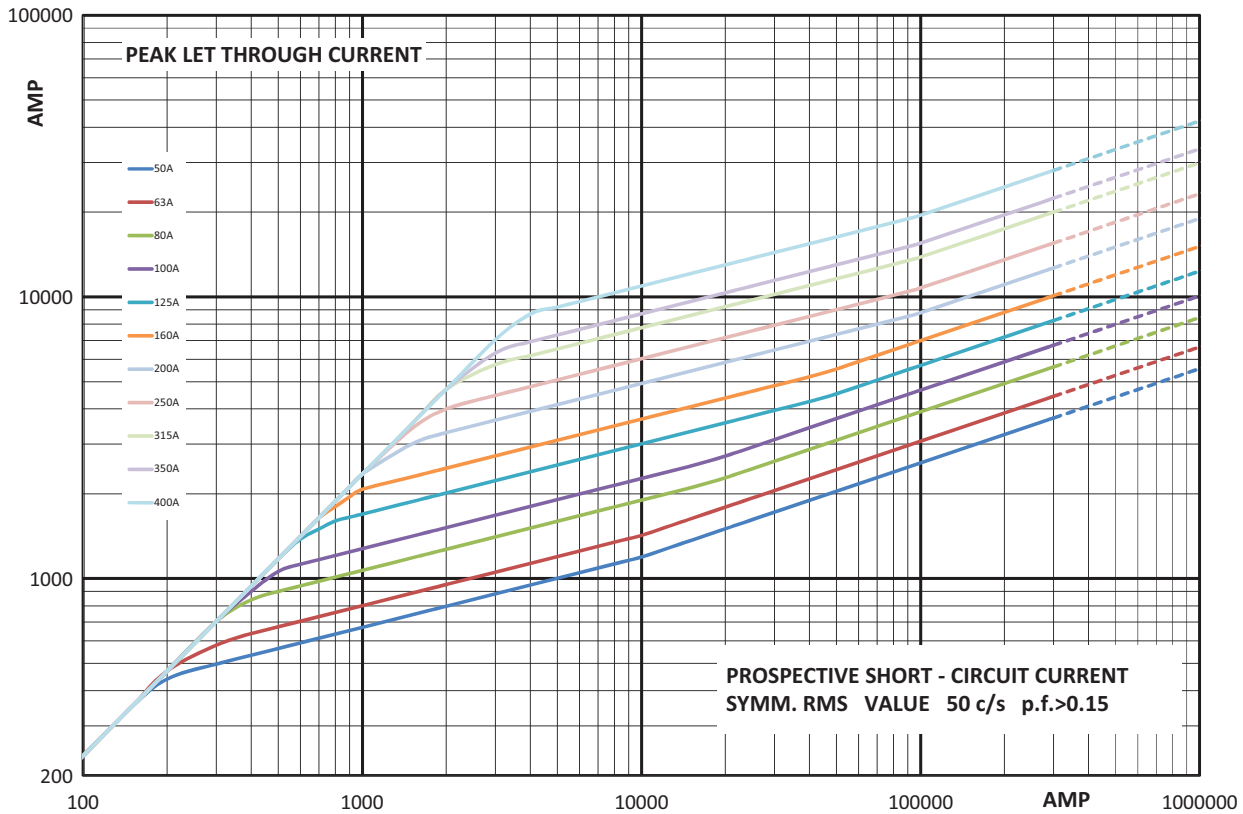
$K_b = 1$ $N = 1,6$

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

Square body fuse links

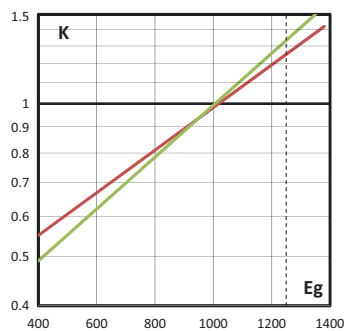
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

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



Total clearing I^2t

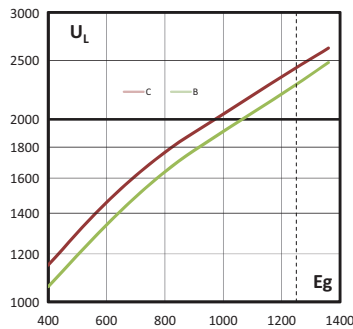
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K , given as a function of applied working voltage, E_g , (RMS).



B: fuses \leq 350 A
C: fuses \geq 400 A

Arc voltage

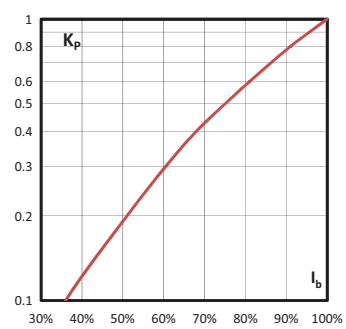
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



B: fuses \leq 350 A
C: fuses \geq 400 A

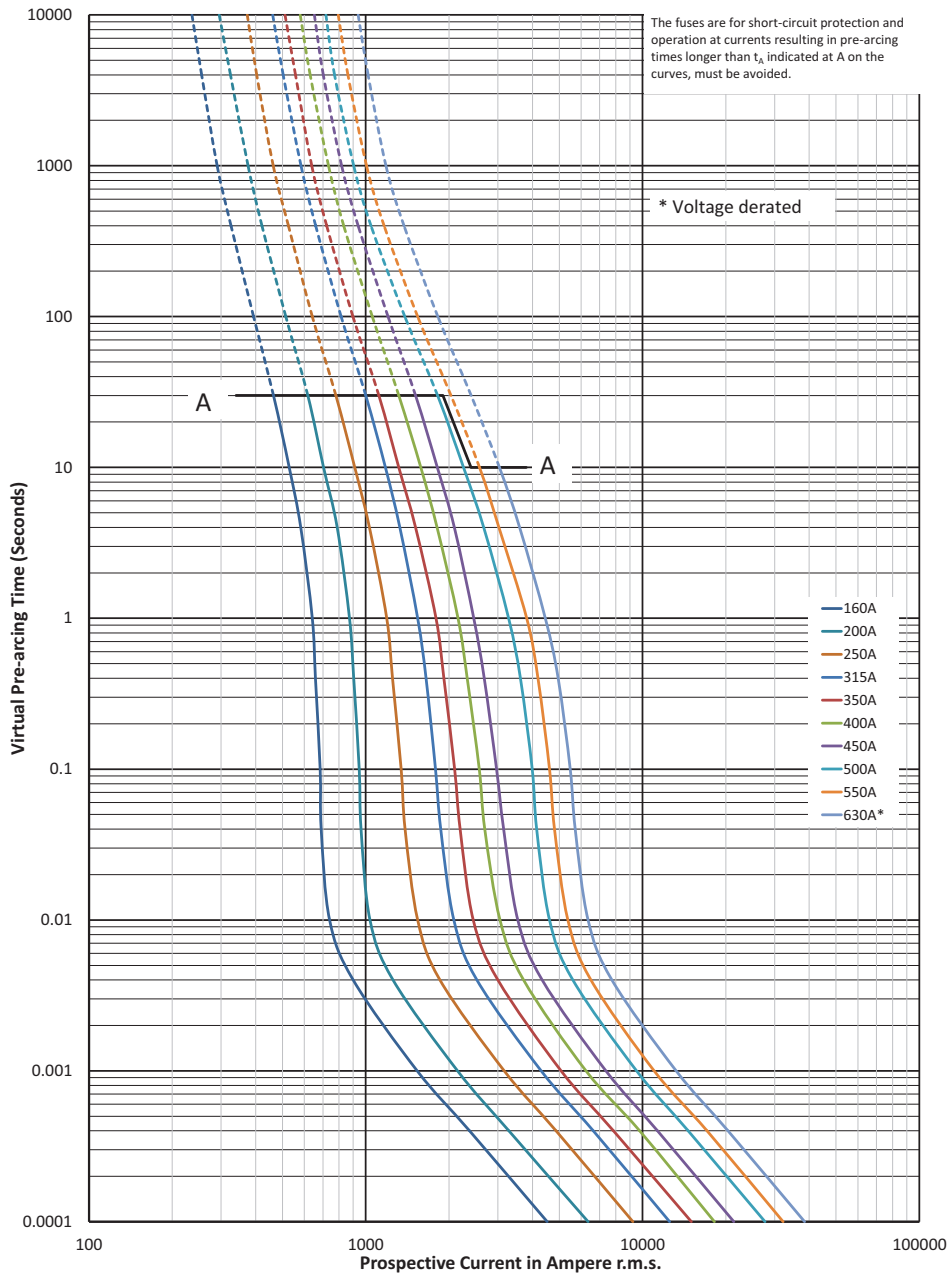
Watts losses

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.



170M - Sizes 1* to 3, Flush end contact, 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

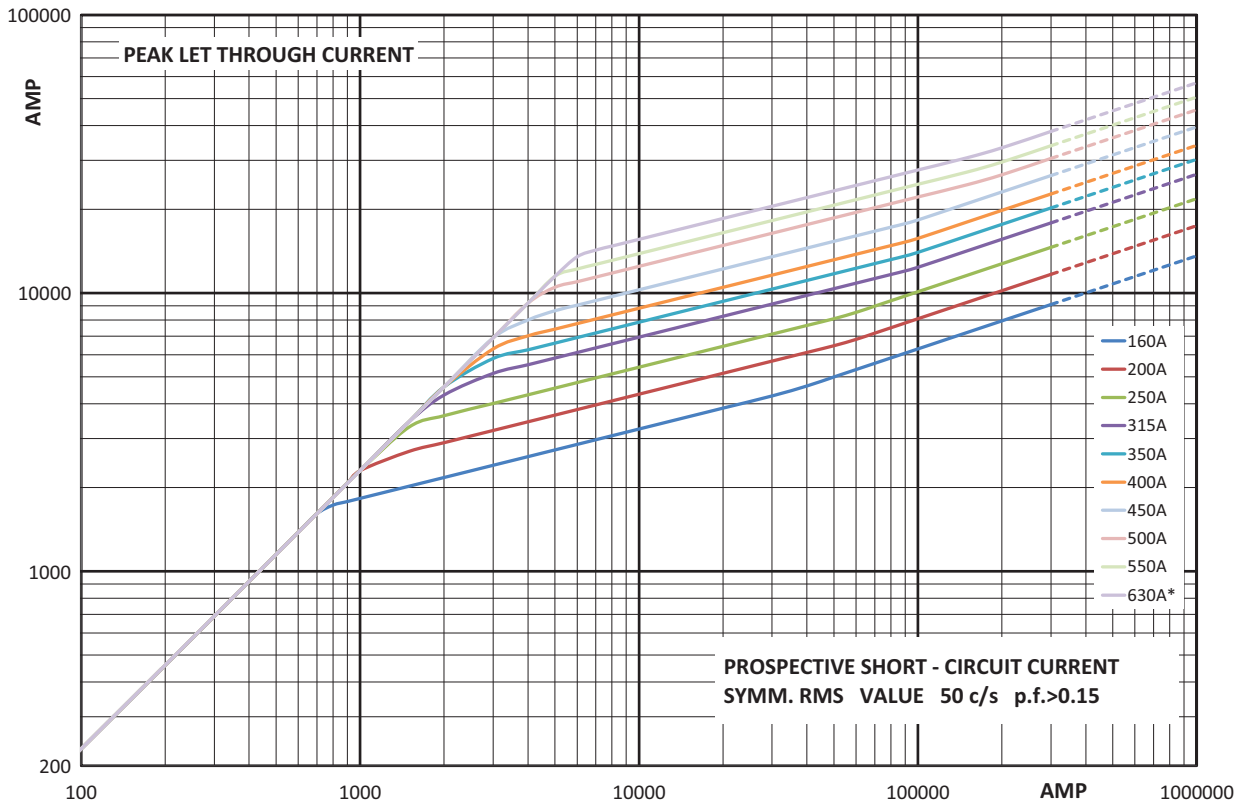


$K_b = 1$ $N = 1.6$

Square body fuse links

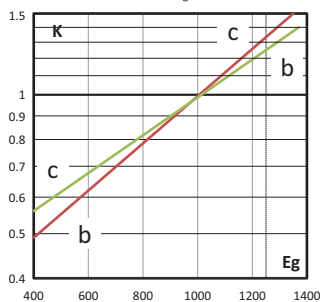
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

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



Total clearing I²t

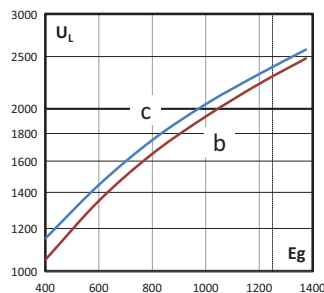
The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).



B: fuses ≤ 450 A
C: fuses ≥ 500 A

Arc voltage

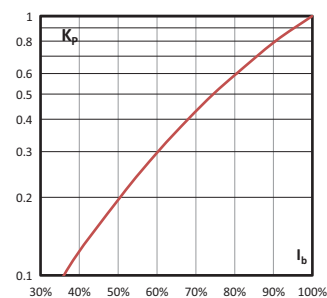
This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15 percent.



B: fuses ≤ 450 A
C: fuses ≥ 500 A

Watts losses

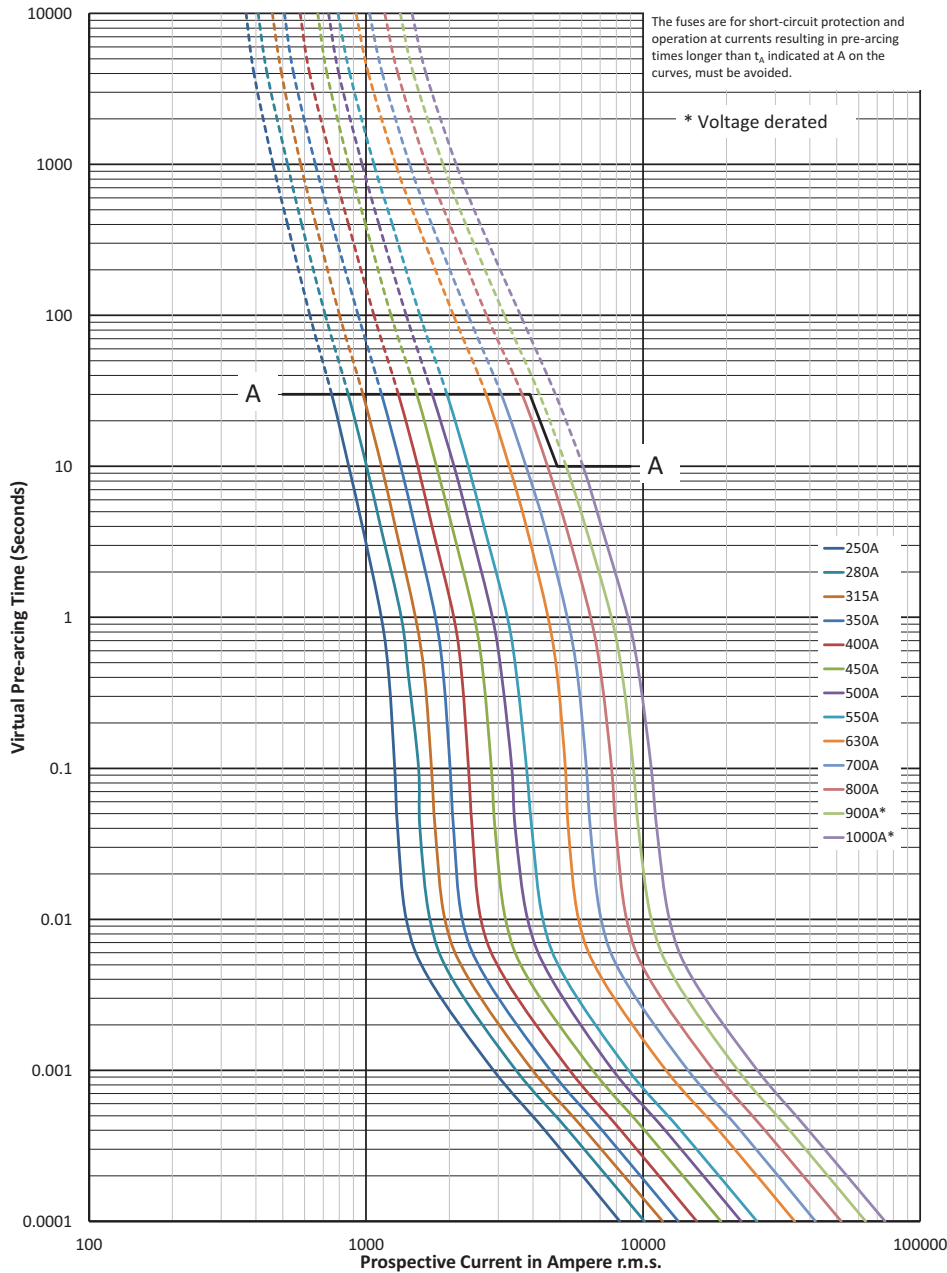
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



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

170M - Sizes 1* to 3, Flush end contact, 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



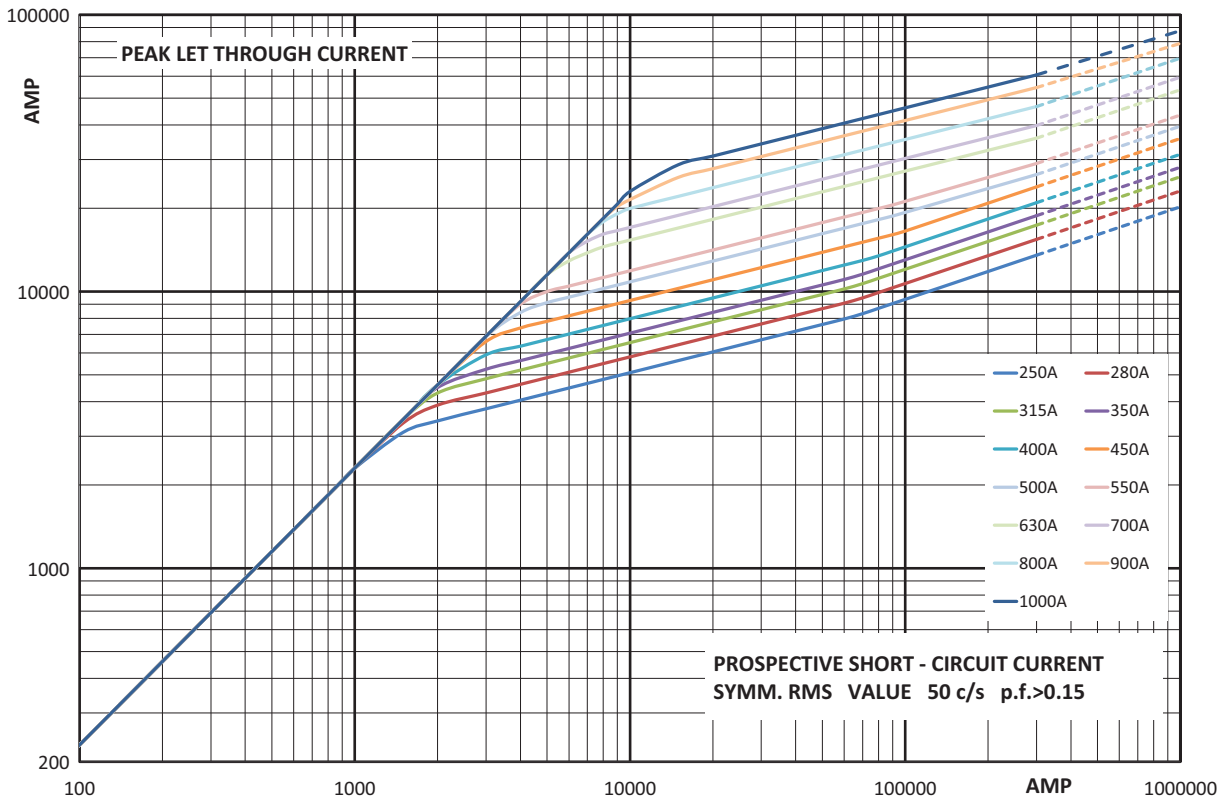
$K_b = 1 \quad N = 1.6$

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

Square body fuse links

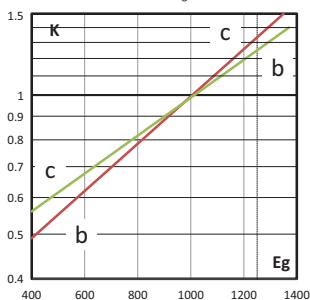
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

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).

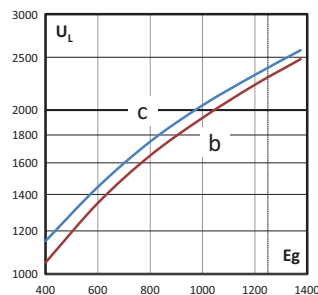


B: fuses ≤ 550 A

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.

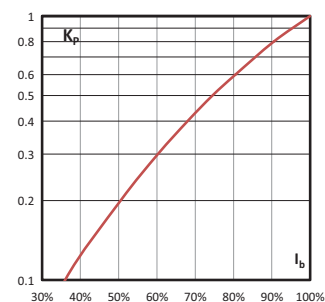


B: fuses ≤ 550 A

C: fuses ≥ 630 A

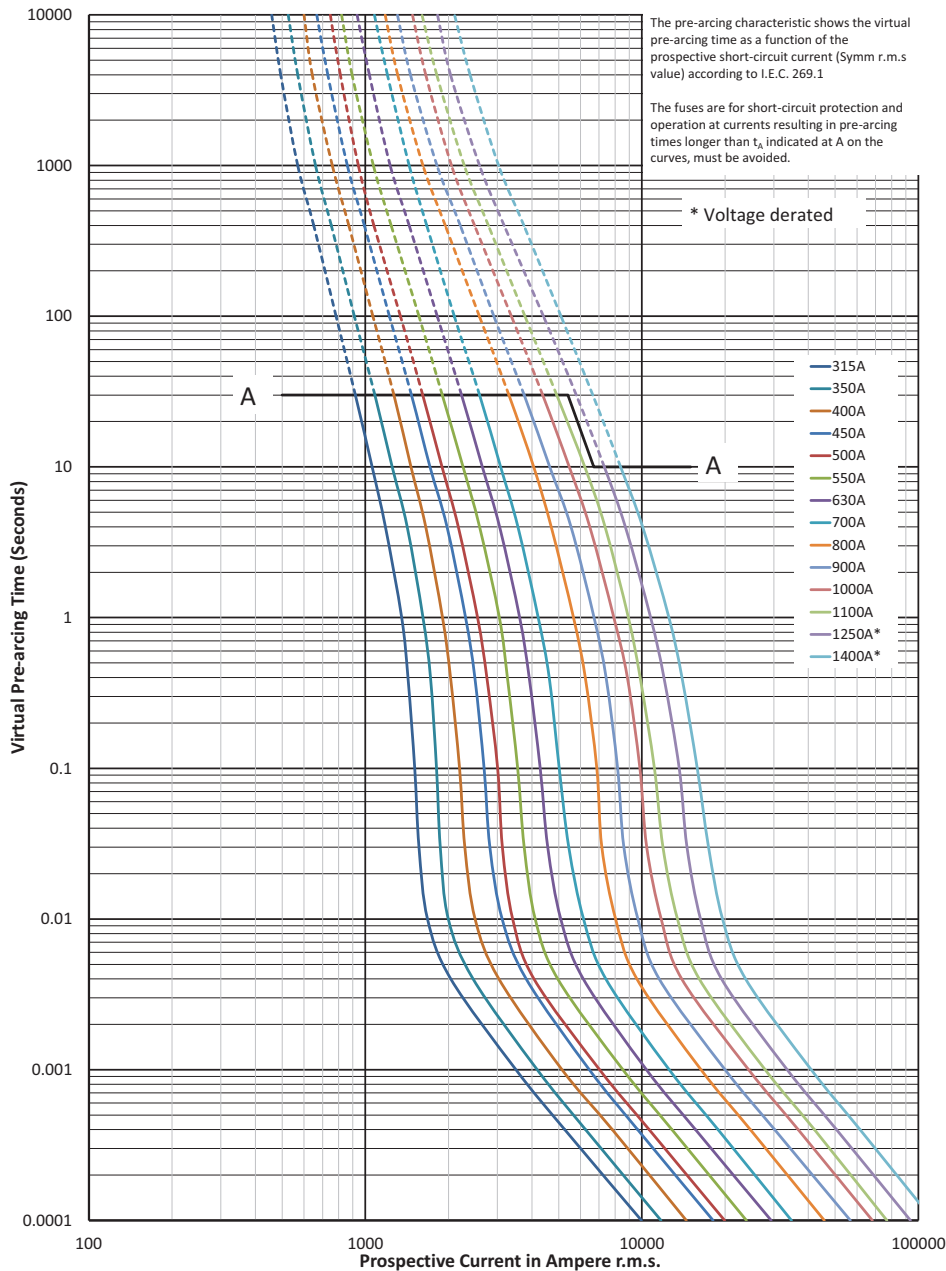
Watts losses

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_o , in percent of the rated current.



170M - Sizes 1* to 3, Flush end contact, 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

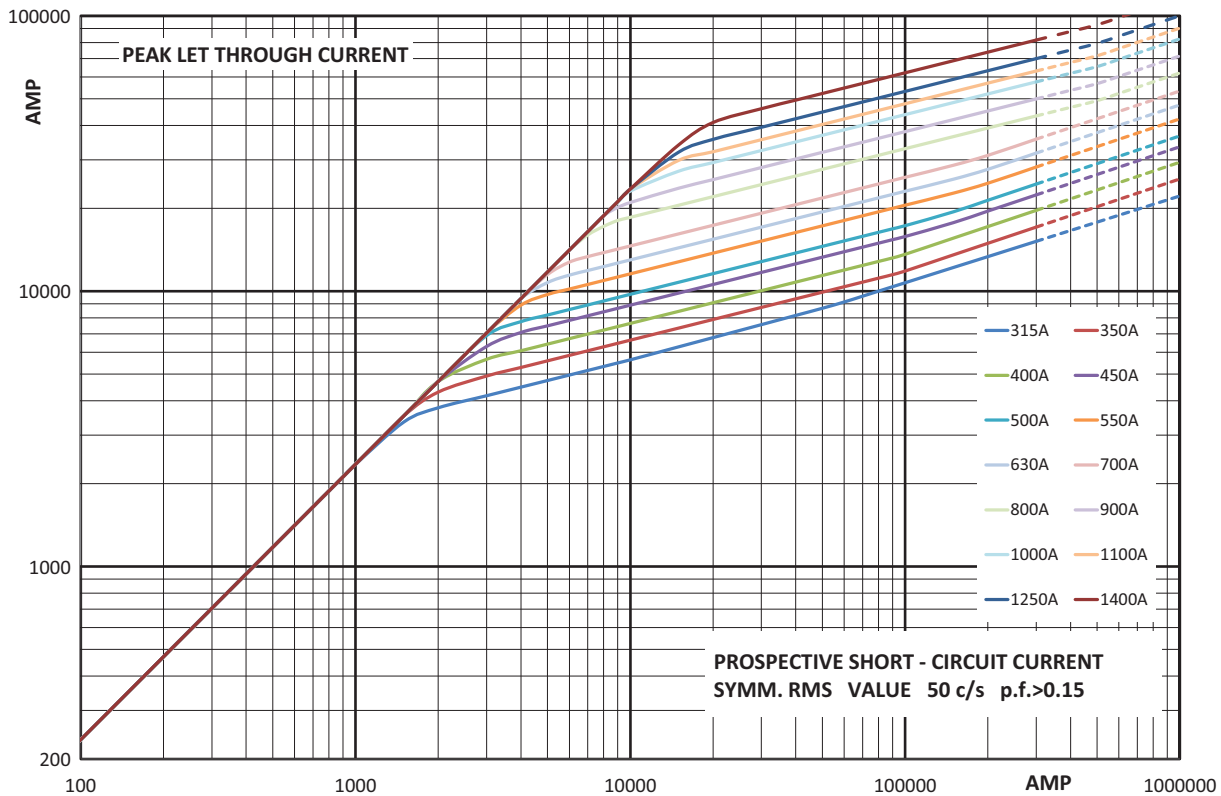


$K_b = 1$ $N = 1.6$

Square body fuse links

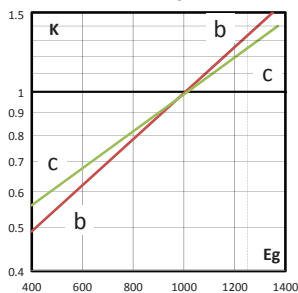
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

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



Total clearing I^2t

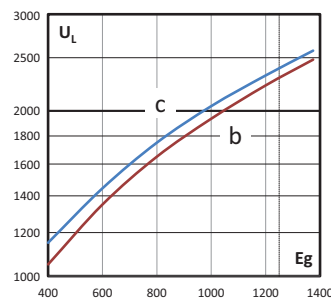
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K , given as a function of applied working voltage, E_g , (RMS).



B: fuses ≤ 700 A
C: fuses ≥ 800 A

Arc voltage

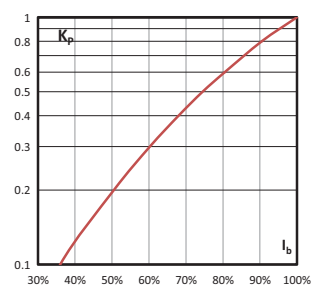
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



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.



170M - Size 4, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 1000 A to 4000 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage:
 - 690 V a.c. (IEC) / 700 V a.c. (UL) 1000 A to 3500 A
 - 600 V a.c. (IEC and UL, 4000 A)
- Rated current: 1000 A to 4000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR



Standards / Agency information

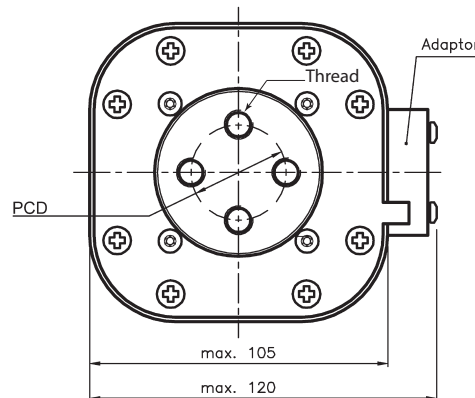
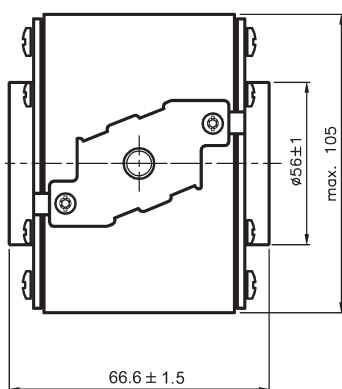
CE, Designed and tested to IEC 60269 Part 4, UL Recognised

Catalogue numbers

Fuse link body size	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)			Catalogue numbers			
			Pre-arcing	Clearing at 660 V a.c.	Watts loss (W)	-B/65 visual indicator	-BKN/65 Type K indicator	-G/65 visual indicator	-GKN/65 Type K indicator
4	690 V a.c. (IEC) 700 V a.c. (UL)	1000	76,000	505,000	175	170M7058	170M7078	170M7098	170M7118
		1250	145,000	965,000	195	170M7059	170M7079	170M7099	170M7119
		1400	205,000	1,400,000	205	170M7060	170M7080	170M7100	170M7120
		1600	305,000	2,050,000	220	170M7061	170M7081	170M7101	170M7121
		1800	436,600	3,067,000	260	170M7340	-	-	-
		2000	600,000	3,950,000	245	170M7062	170M7082	170M7102	170M7122
		2200	805,000	5,350,000	255	170M7116	170M7114	170M7171	170M7173
		2500	1,200,000	7,800,000	275	170M7063	170M7083	170M7103	170M7123
		3000	2,000,000	13,500,000	305	170M7064	170M7084	170M7104	170M7124
		3500	3,250,000	22,000,000	325	170M7065	170M7085	170M7105	170M7125
	600 V a.c. (IEC & UL)	4000	4,700,000	28,000,000 ¹	355	170M7066	170M7086	170M7106	170M7126

¹ Clearing at 600 V a.c.

Dimensions (mm) -BKN/65 and -GKN/65



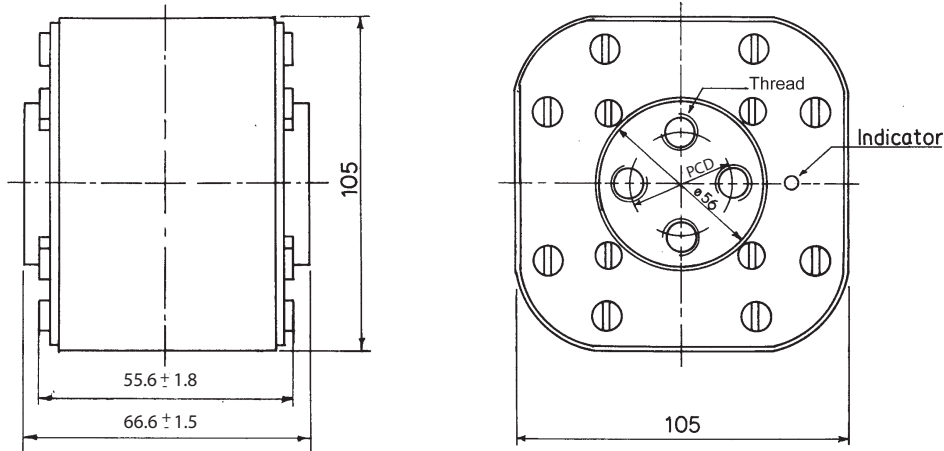
Type	PCD	Thread
-GKN/65	Ø 38.1	UNC 1/2" - 13
-BKN/65	Ø 33	M-10

Data sheet: 170K6328

Square body fuse links

170M - Size 4, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 1000 A to 4000 A

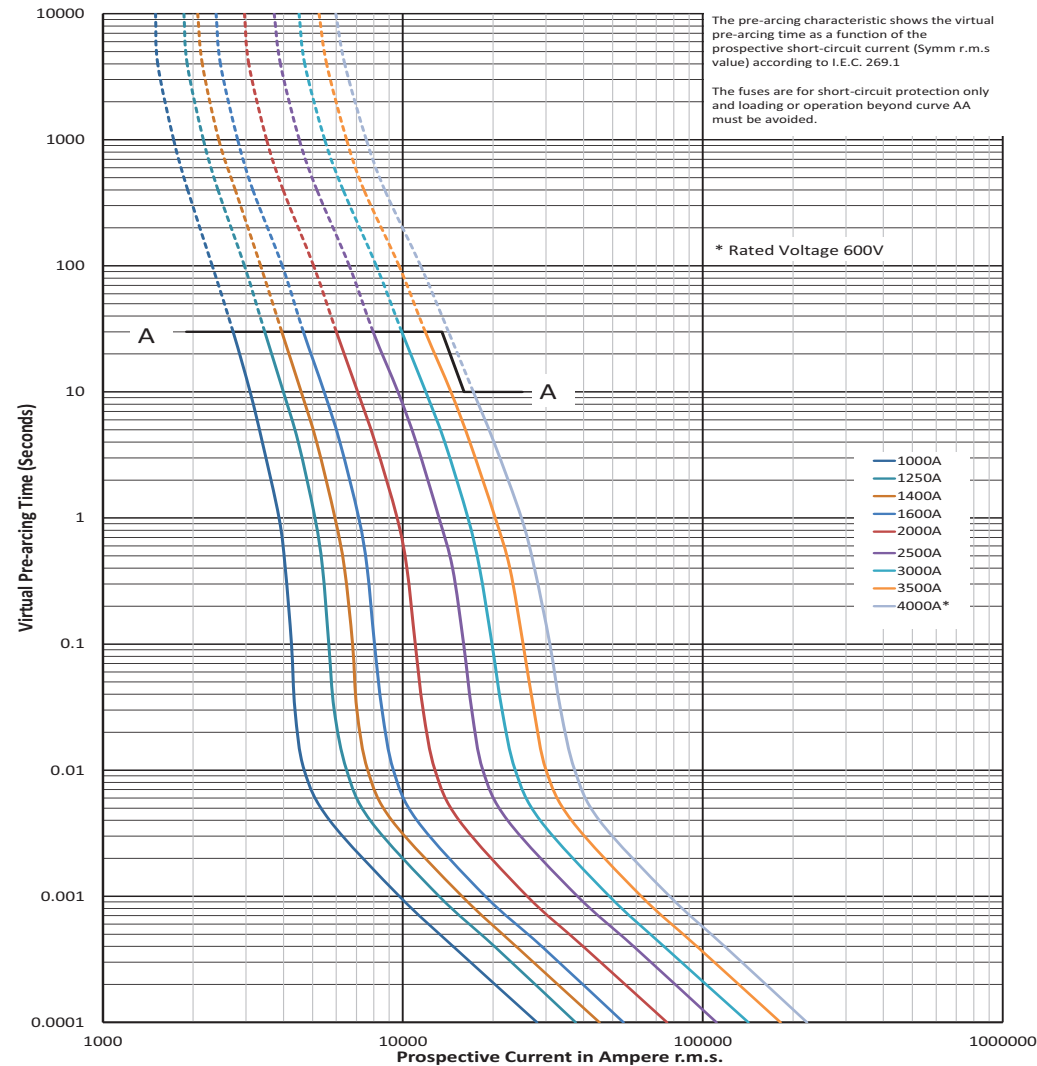
Dimensions (mm) -B/65 and -G/65



Type -B/65, -G/65

	PCD	Thread
-G/65	Ø 38.1	UNC 1/2" - 13
-B/65	Ø 33	M-10

Time-current curve - 1000 A to 4000 A

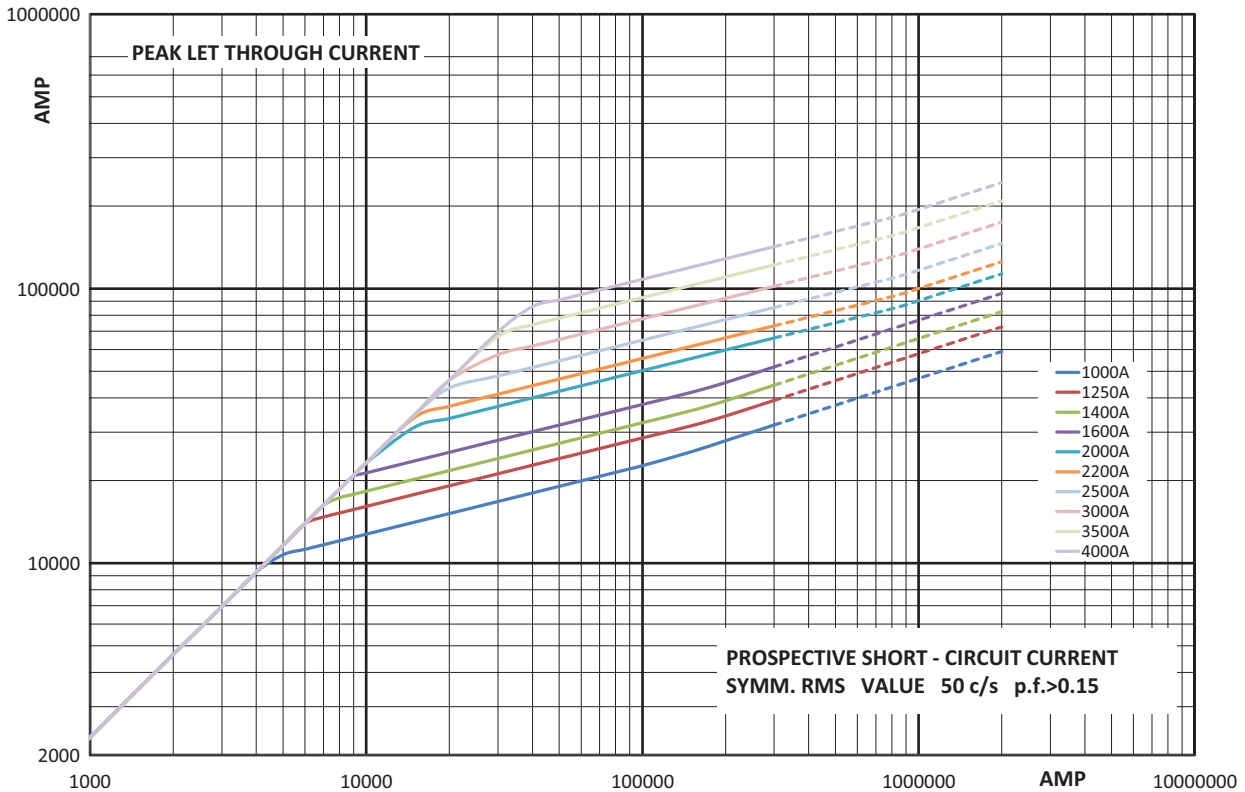


$K_b = 1$ $N = 1.5$

Data sheet: 170K6328

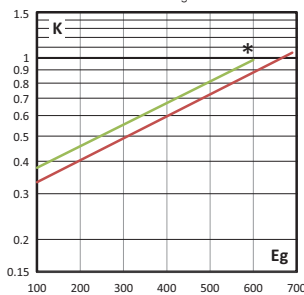
170M - Size 4, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 1000 A to 4000 A

Cut-off curve - 1000 A to 4000 A



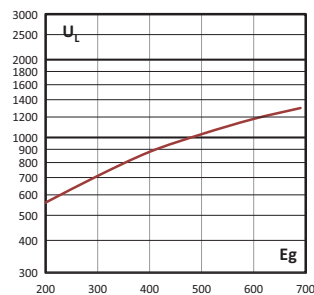
Total clearing I^2t

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).



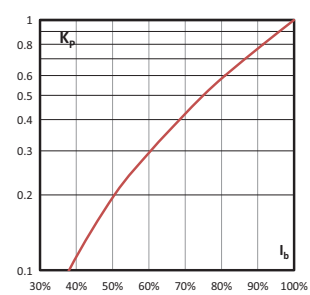
Arc voltage

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.



Square body fuse links

170M - Size 4, Flush end contact, 1000 V a.c. (IEC), 1000 A to 3000 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage: 1000 V a.c. (IEC)
- Rated current: 1000 A to 3000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

Standards / Agency information

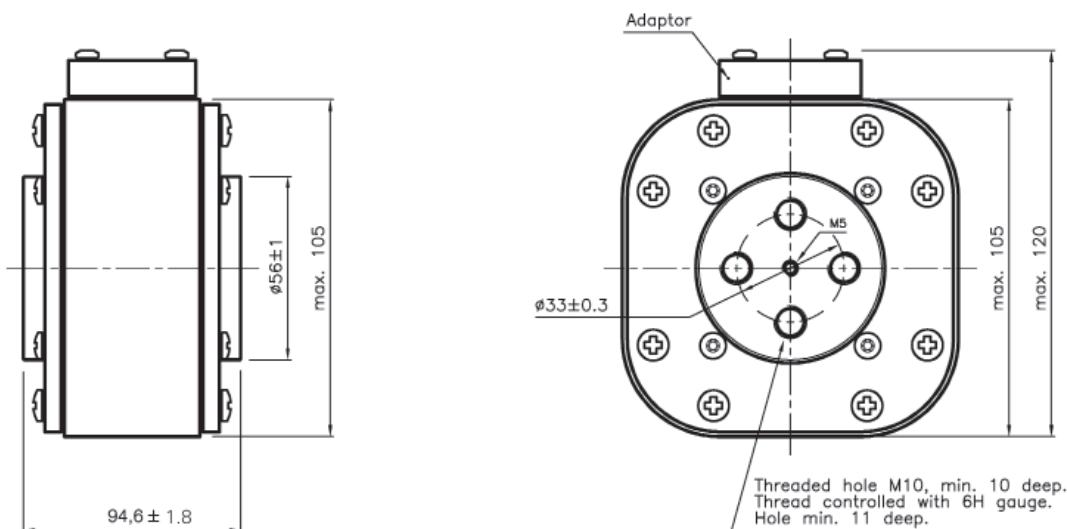
CE, Designed and tested to IEC 60269 Part 4



Catalogue numbers

Fuse link body size	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)			Catalogue numbers	
			Pre-arcing	Clearing at 1000 V a.c.	Watts loss (W)	-BKN/95 Type K indicator	-SBKN/90 Type K indicator
4	1000 V a.c.	1000	180,000	1,100,000	195		170M7542
		1100	250,000	1,500,000	200		170M7031
		1500	600,000	3,600,000	250	170M7636	170M7548
		1700	850,000	5,000,000	260	170M7639	170M7034
		1800	1,000,000	5,950,000	265	170M7661	170M7053
		2000	1,450,000	8,600,000	270	170M7963	170M7544
		2200	2,000,000	12,000,000	280	170M7090	170M7035
		2500	3,000,000	18,000,000	295	170M7640	170M7036
		2700	3,700,000	22,000,000	310	170M7658	170M7037
		3000	4,700,000	28,000,000	380	170M7962	170M7156

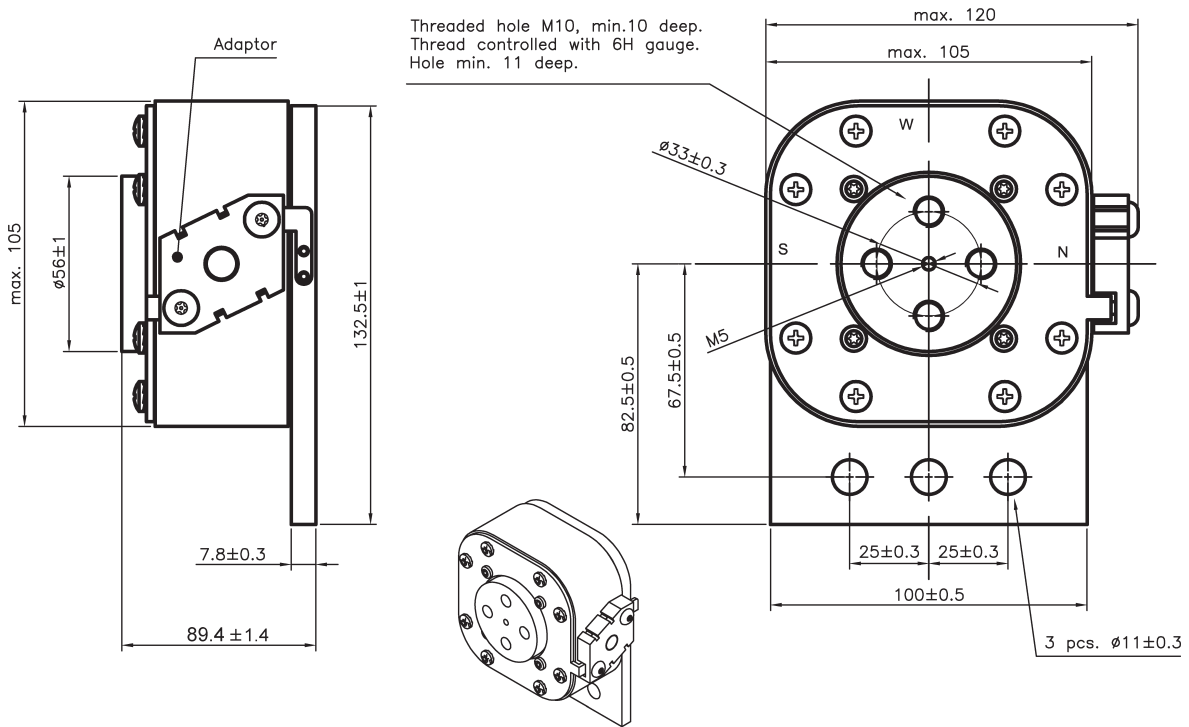
Dimensions (mm) - 4BKN/95



Data sheets: 170K8520 (1000 A to 1700 A, 2000 A to 2700 A), 170K8520-R (1800 and 3000 A)

170M - Size 4, Flush end contact, 1000 V a.c. (IEC), 1000 A to 3000 A

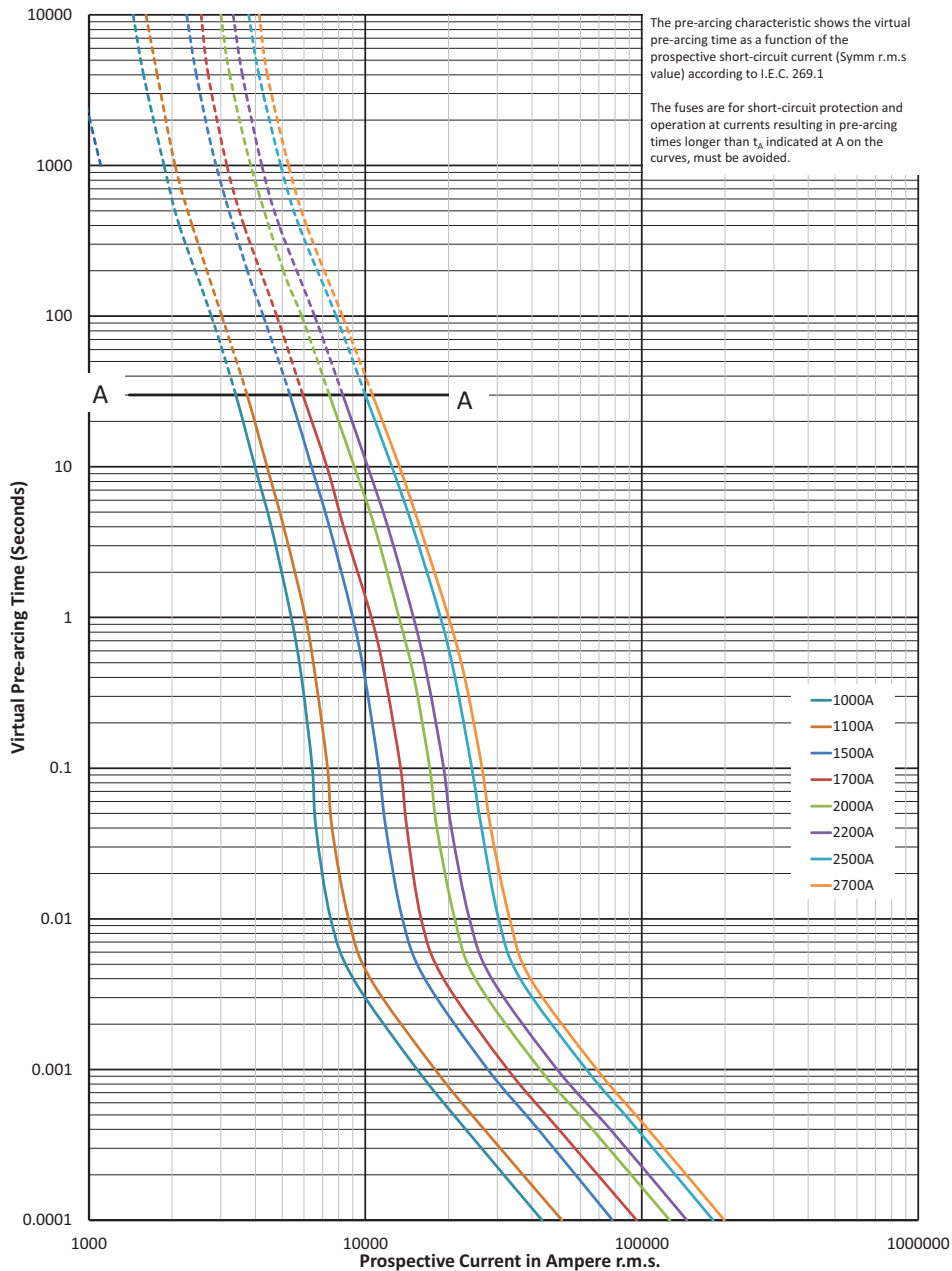
Dimensions (mm) - 4SBKN/90



Square body fuse links

170M - Size 4, Flush end contact, 1000 V a.c. (IEC), 1000 A to 3000 A

Time-current curve - 1000 A to 2700 A

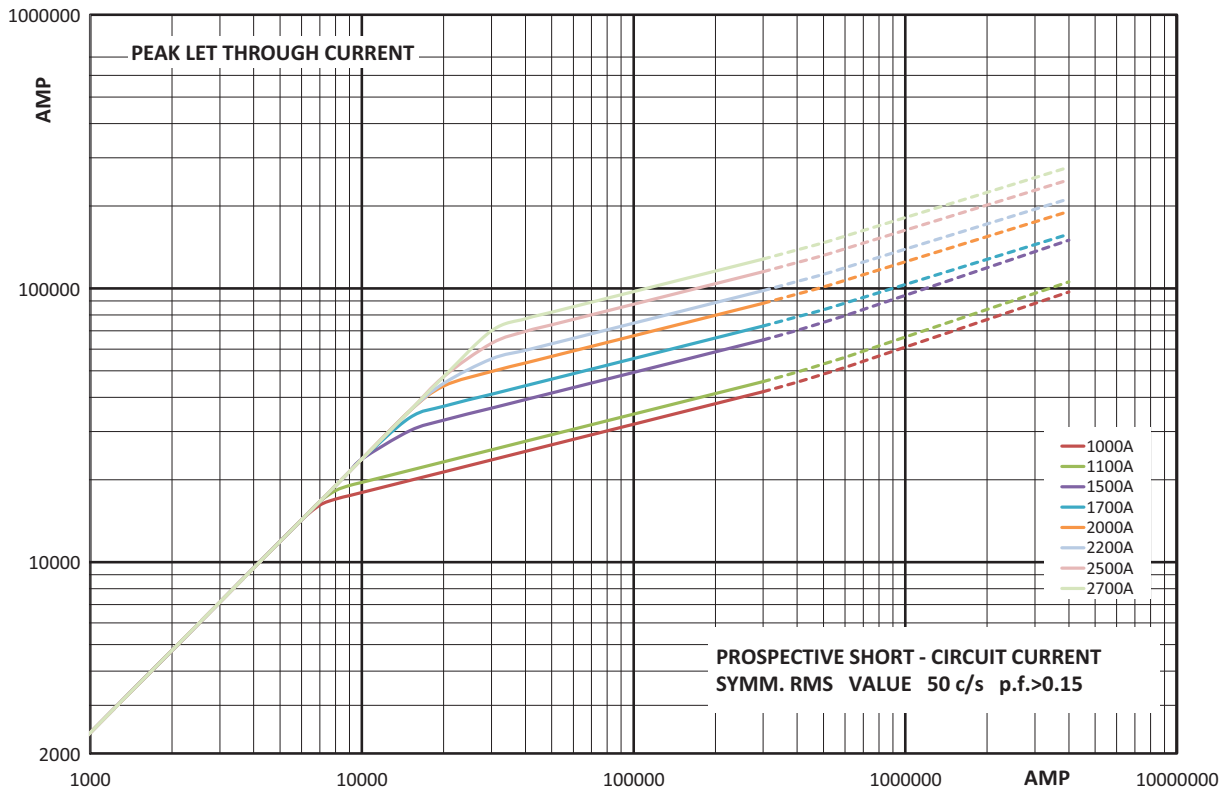


$K_b = 1$ $N = 1.6$

Data sheets: 170K8520 (1000 A to 1700 A, 2000 A to 2700 A, 170K8520-R (1800 and 3000 A)

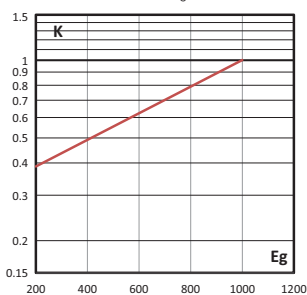
170M - Size 4, Flush end contact, 1000 V a.c. (IEC), 1000 A to 3000 A

Cut-off curve - 1000 A to 2700 A



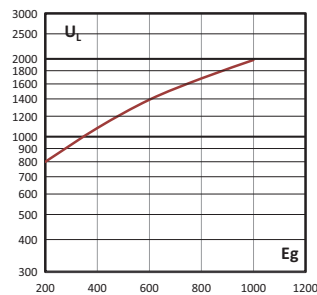
Total clearing I²t

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).



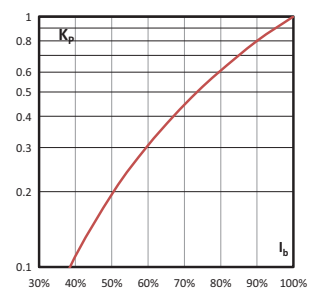
Arc voltage

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.

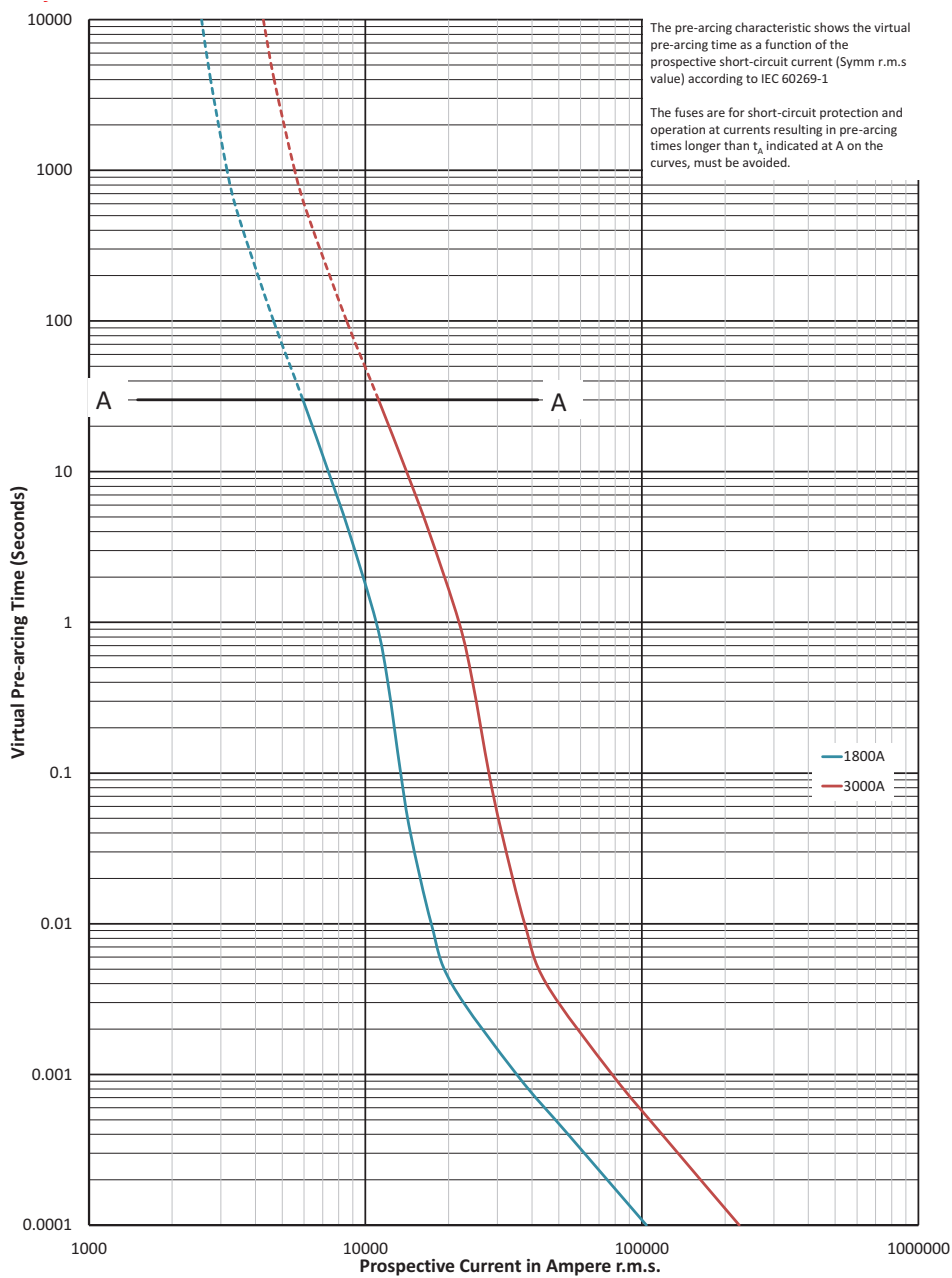


Data sheets: 170K8520 (1000 A to 1700 A, 2000 A to 2700 A, 170K8520-R (1800 and 3000 A)

Square body fuse links

170M - Size 4, Flush end contact, 1000 V a.c. (IEC), 1000 A to 3000 A

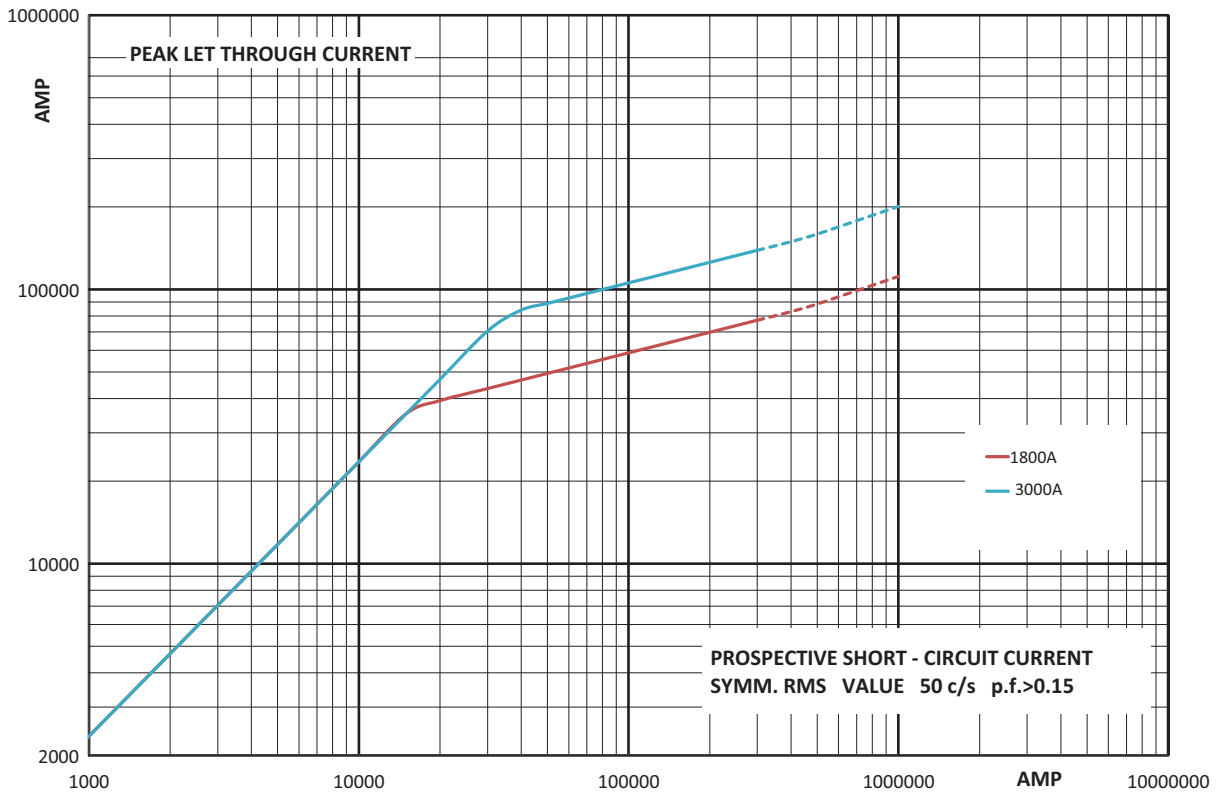
Time-current curve - 1800 A and 3000 A



Data sheets: 170K8520 (1000 A to 1700 A, 2000 A to 2700 A, 170K8520-R (1800 and 3000 A)

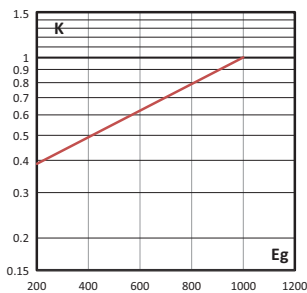
170M - Size 4, Flush end contact, 1000 V a.c. (IEC), 1000 A to 3000 A

Cut-off curve - 1800 A and 3000 A



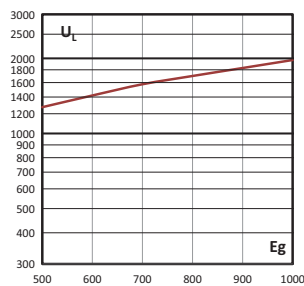
Total clearing I²t

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).



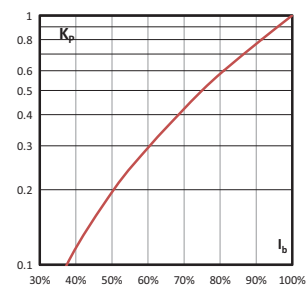
Arc voltage

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: 170K8520 (1000 A to 1700 A, 2000 A to 2700 A, 170K8520-R (1800 and 3000 A)

Square body fuse links

170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage:
 - 1250 V a.c. (IEC)
 - 1200 V d.c. (UL)
- Rated current: 800 A to 2500 A
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4, UL



Catalogue numbers

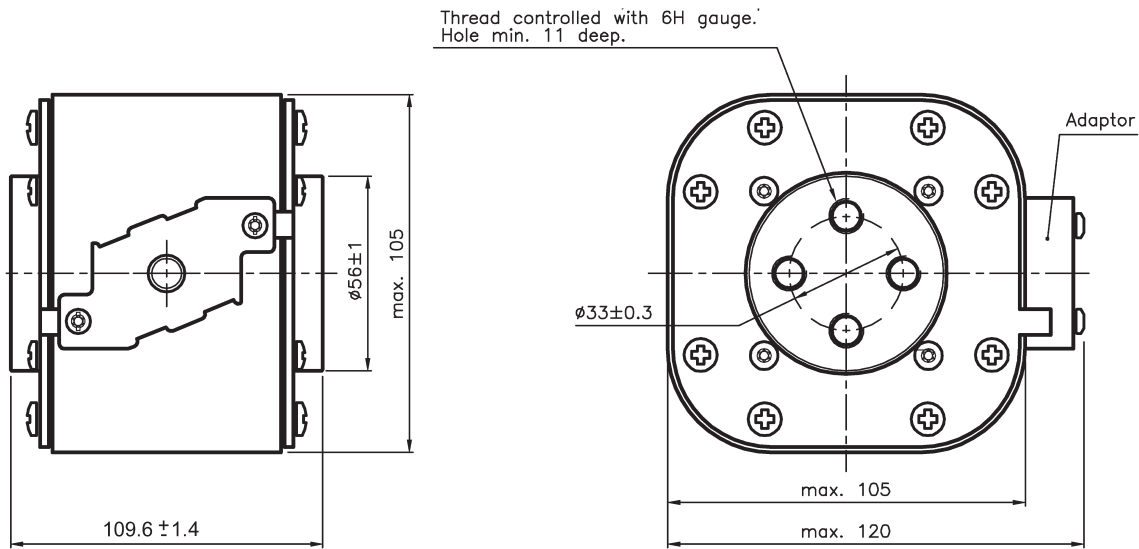
Fuse link body size	AC		DC		Rated current (Amps)	I ² t (A ² Sec)		Watts loss (W)	Catalogue numbers	
	Rated voltage	Breaking capacity	Rated voltage	Breaking capacity		Pre-arcing	Clearing at 1250 V a.c.		-BKN/110 Type K indicator	-SBKN/105 Type K indicator
4	1250 V a.c.	100 kA	1000 V d.c.	180 kA IR UL	800	145,000	905,000	195	170M7802	-
					1000	275,000	1,750,000	220	170M7803	-
					1200	495,000	3,100,000	240	170M7804	-
					1400	800,000	5,000,000	250	170M7217 ¹	170M7512
					1500	1,000,000	6,200,000	260	170M7597	170M7510
					1700	1,400,000	8,700,000	275	170M7676	170M7511
					1800	1,700,000	11,000,000	280	170M7532	170M7976
					2000	2,300,000	14,500,000	305	170M7633	170M7513
					2200	3,100,000	19,500,000	315	170M7592	170M7546
					2400	4,000,000	25,000,000	330	170M7107	170M7516
					2500	4,500,000	28,000,000	340	170M7595 ²	170M7978

¹ 170M7217 rated 850 V d.c./1250 V a.c. (IEC), 1000 V d.c. 180 kA IR (UL), 1200 V d.c. 85 kA IR (UL)

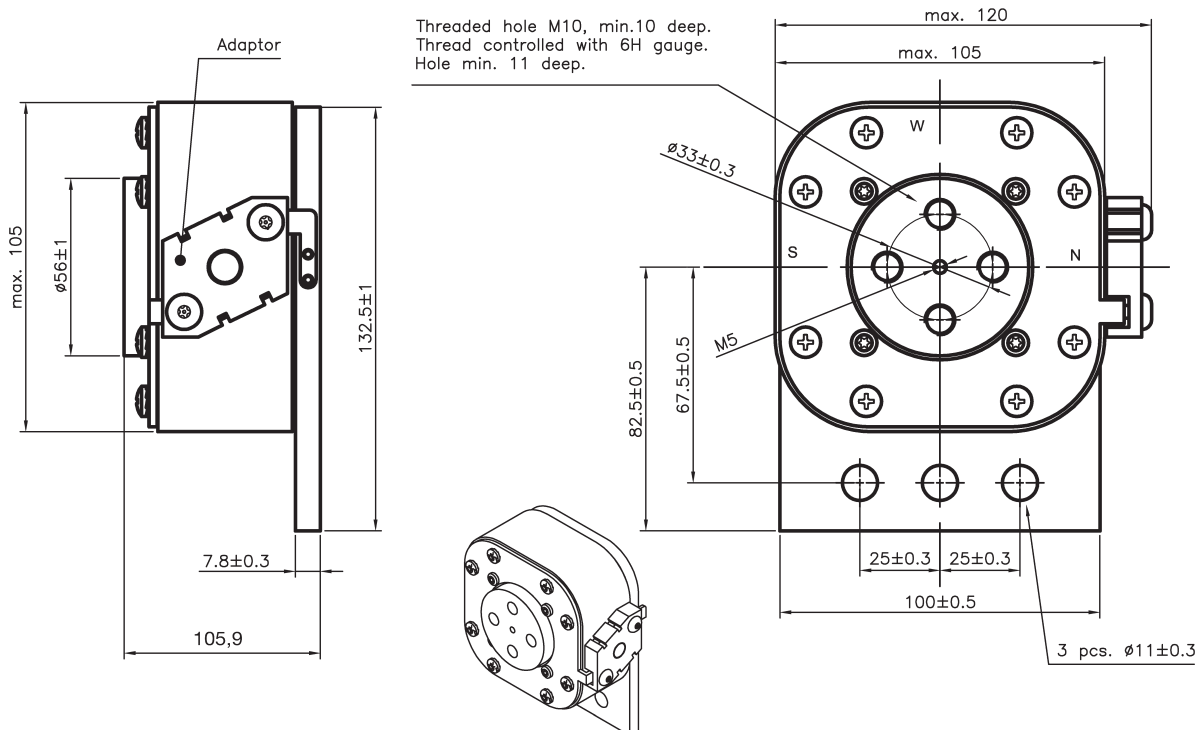
² 170M7595 rated at 1200V d.c. 85kA only at 2ms time constant

170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Dimensions (mm) - 4BKN/110



Dimensions (mm) - 4SBKN/105

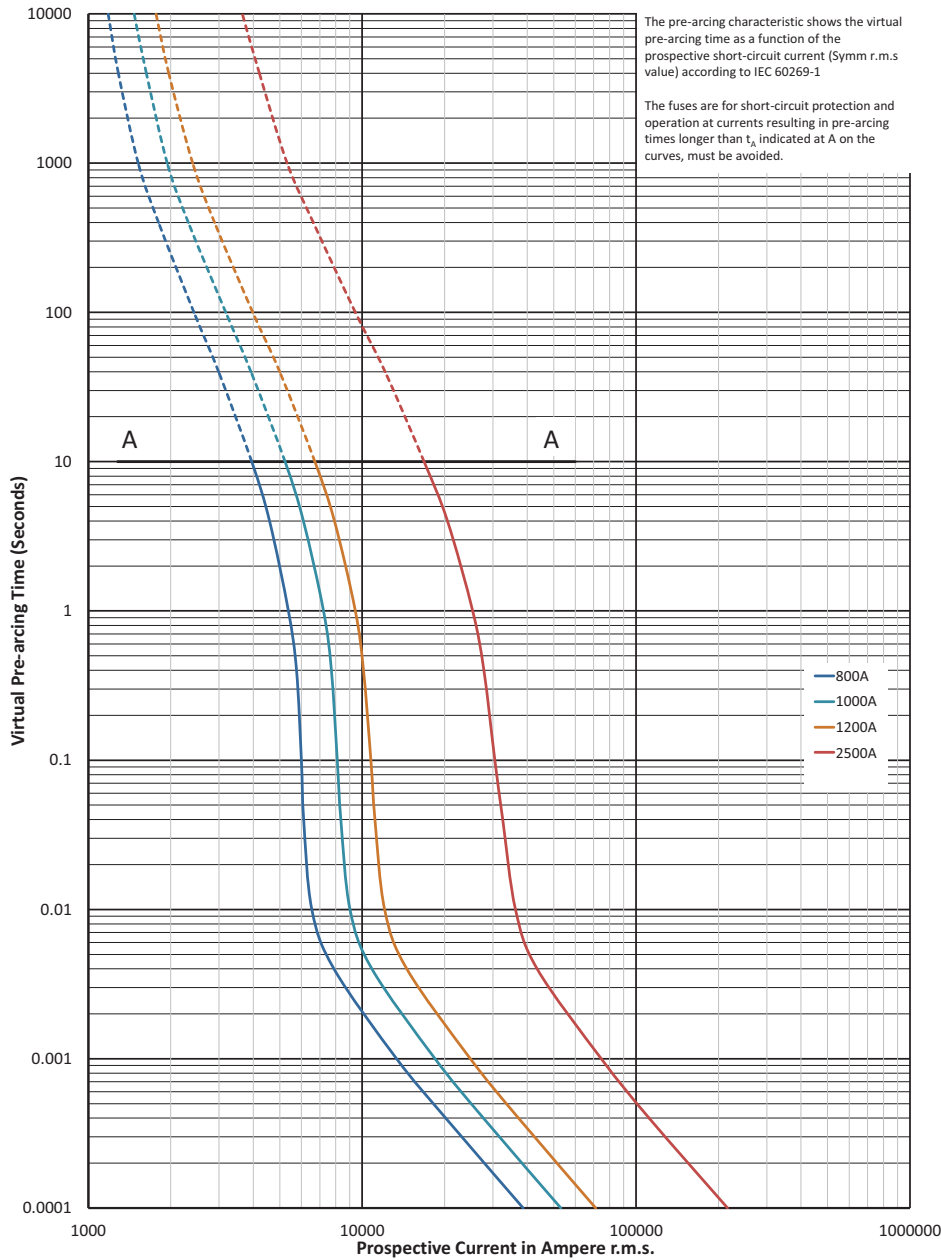


Data sheets: 170K6640 (1400 A to 2400 A), 170K6642 (800 A to 1200A and 2500 A)

Square body fuse links

170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Time-current curve - 800 A to 2500 A

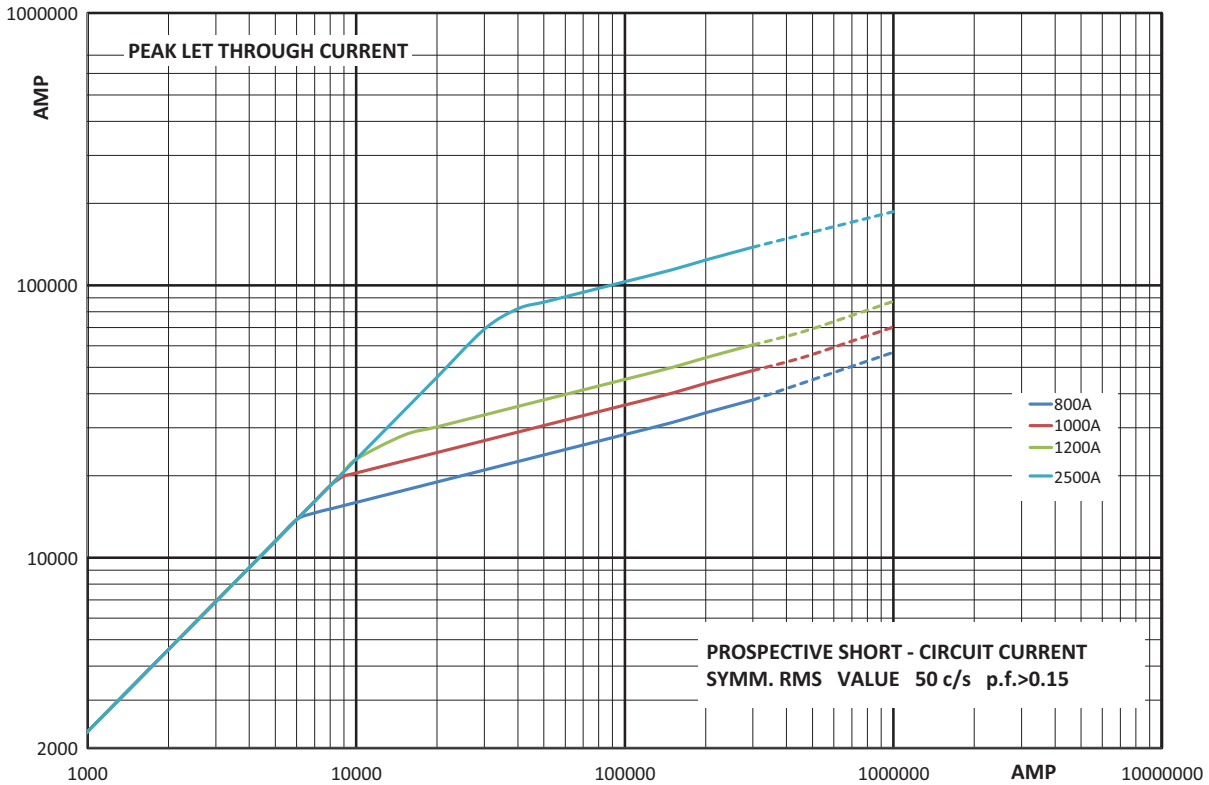


$K_b = 1$ $N = 1.7$

Data sheets: 170K6640 (1400 A to 2400 A), 170K6642 (800 A to 1200A and 2500 A)

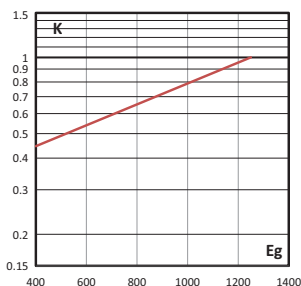
170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Cut-off curve - 800 A to 2500 A



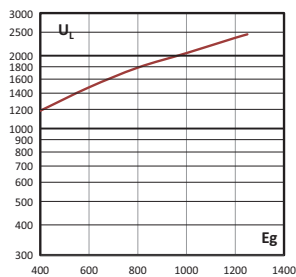
Total clearing I²t

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).



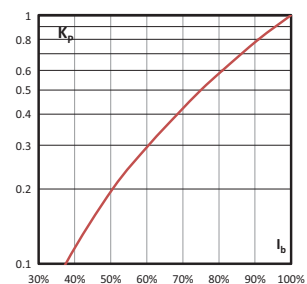
Arc voltage

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.

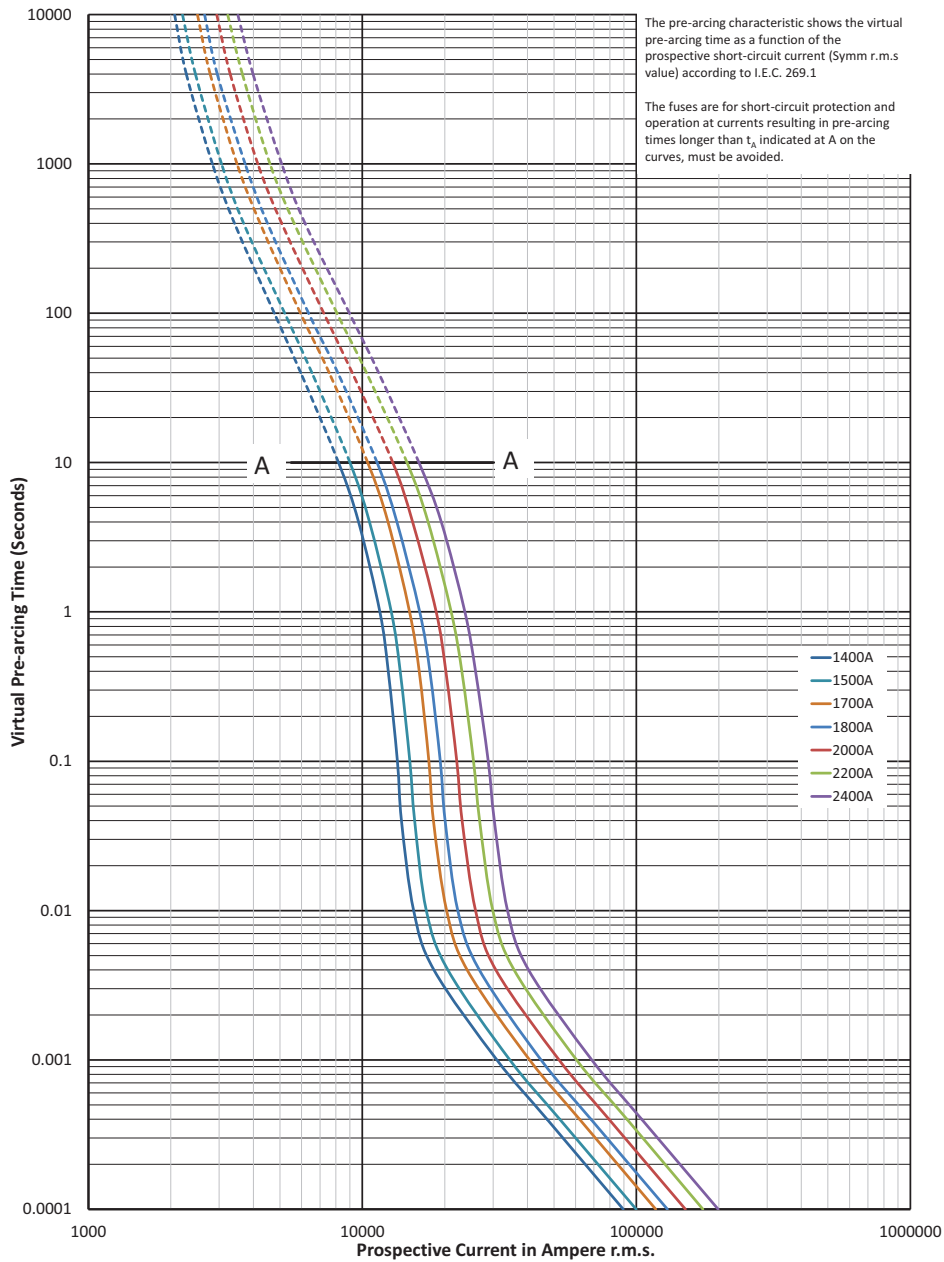


Data sheets: 170K6640 (1400 A to 2400 A), 170K6642 (800 A to 1200A and 2500 A)

Square body fuse links

170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Time-current curve - 1400 A to 2400 A

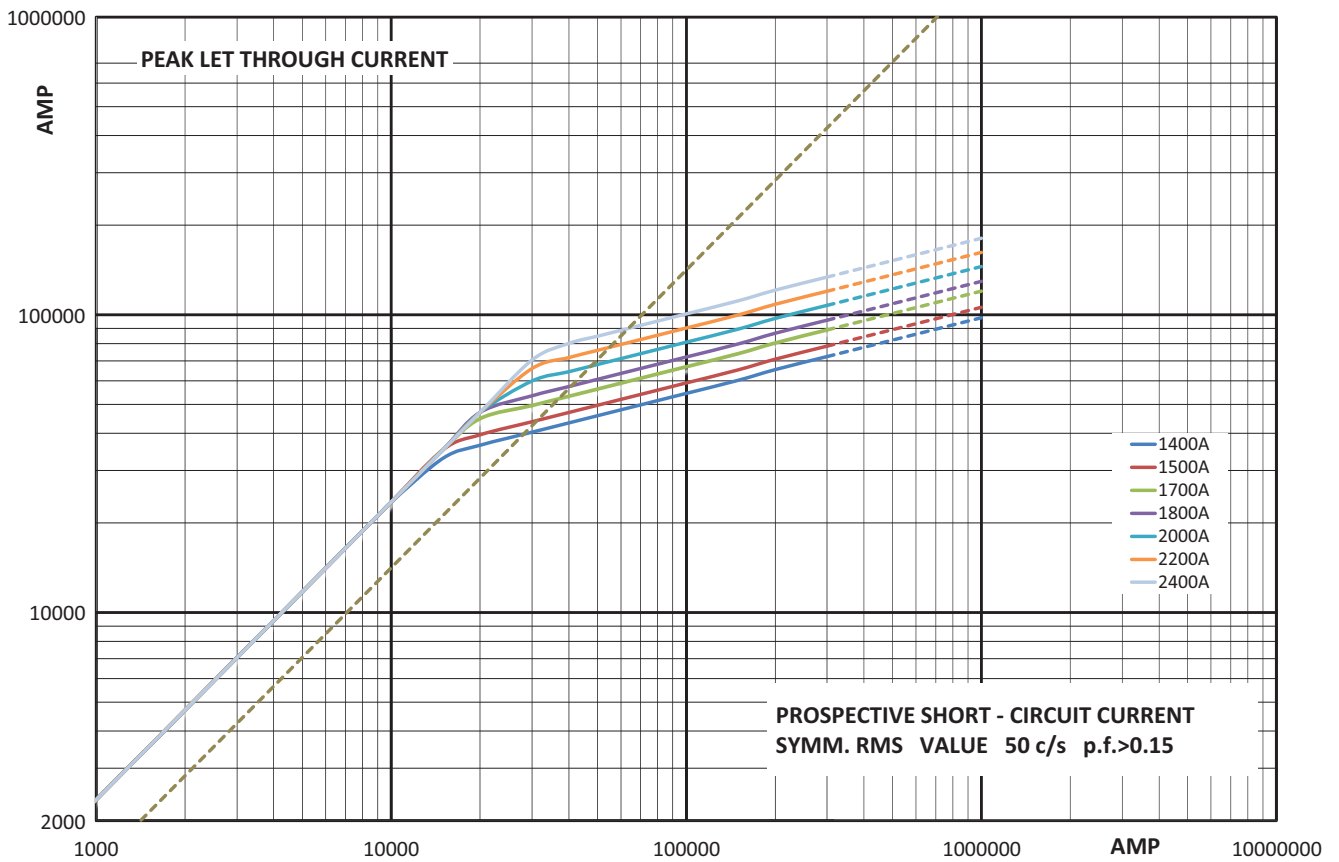


$K_b = 1$ $N = 1.7$

Data sheets: 170K6640 (1400 A to 2400 A), 170K6642 (800 A to 1200A and 2500 A)

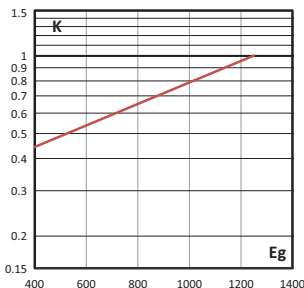
170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Cut-off curve - 1400 A to 2400 A



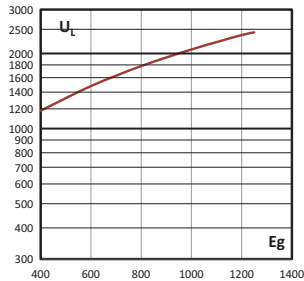
Total clearing I^2t

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).



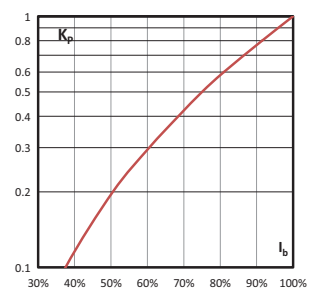
Arc voltage

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: 170K6640 (1400 A to 2400 A), 170K6642 (800 A to 1200A and 2500 A)

Square body fuse links

170M - Size 23, Flush end contact, 660 V a.c. (IEC), 1000 A to 4000 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage:
 - 660 V a.c. (IEC, 1000 A to 3000 A)
 - 600 V a.c. (IEC, 3500 A)
 - 550 V a.c. (IEC, 4000 A)
- Rated current: 1000 A to 4000 A
- Breaking capacity: 100 kA RMS Sym
- Operating class: aR



Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4

Catalogue numbers

Fuse link body size	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)		Watts loss (W)	Catalogue numbers					
			Pre-arcing	Clearing at 660 V a.c.		-BU/55	-BKE/55 Type K indicator	-BKN/55 Type K indicator	-GU/55	-GKE/55 Type K Indicator	-GKN/55 Type K Indicator
23	660 V a.c. (IEC)	1000	79,000	530,000	170	170M6858	170M6898	170M6878	170M6918	170M6958	170M6938
		1100	95,000	635,000	185	170M6859	170M6899	170M6879	170M6919	170M6959	170M6939
		1250	155,000	1,050,000	190	170M6860	170M6900	170M6880	170M6920	170M6960	170M6940
		1400	200,000	1,350,000	210	170M6861	170M6901	170M6881	170M6921	170M6961	170M6941
		1500	240,000	1,650,000	215	170M6862	170M6902	170M6882	170M6922	170M6962	170M6942
		1600	315,000	2,150,000	220	170M6863	170M6903	170M6883	170M6923	170M6963	170M6943
		1800	450,000	3,050,000	230	170M6864	170M6904	170M6884	170M6924	170M6964	170M6944
		2000	625,000	4,200,000	240	170M6865	170M6905	170M6885	170M6925	170M6965	170M6945
		2200	805,000	5,400,000	255	170M6866	170M6906	170M6886	170M6926	170M6966	170M6946
		2500	1,250,000	8,350,000	265	170M6867	170M6907	170M6887	170M6927	170M6967	170M6947
	3000	2,250,000	15,500,000	285	170M6868	170M6908	170M6888	170M6928	170M6968	170M6948	
	600 V a.c. (IEC)	3500	3,450,000	21,000,000 ¹	315	170M6869	170M6909	170M6889	170M6929	170M6969	170M6949
	550 V a.c. (IEC)	4000	5,000,000	27,500,000 ²	340	170M6870	170M6910	170M6890	170M6930	170M6970	170M6950

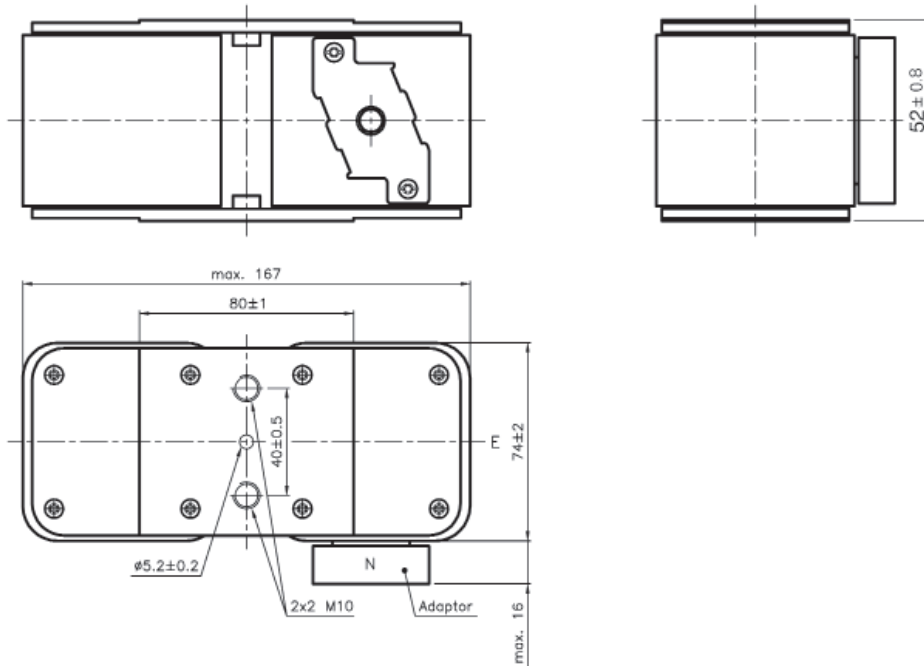
¹ Clearing at 600 V a.c.

² Clearing at 550 V a.c.

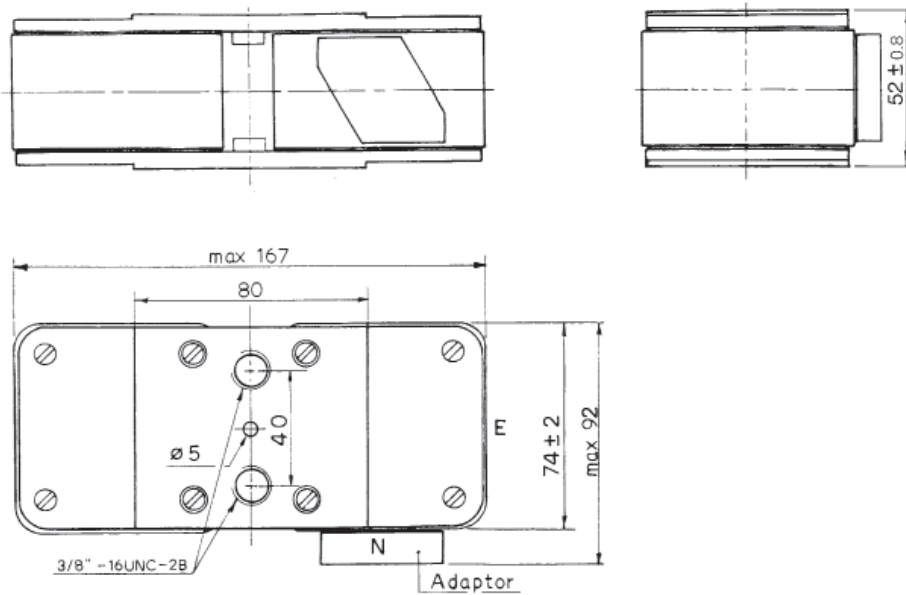
When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com.

170M - Size 23, Flush end contact, 660 V a.c. (IEC), 1000 A to 4000 A

Dimensions (mm) -BU/55, -BKE/55 and -BKN/55



Dimensions (mm) -GU/55, -GKE/55 and -GKN/55



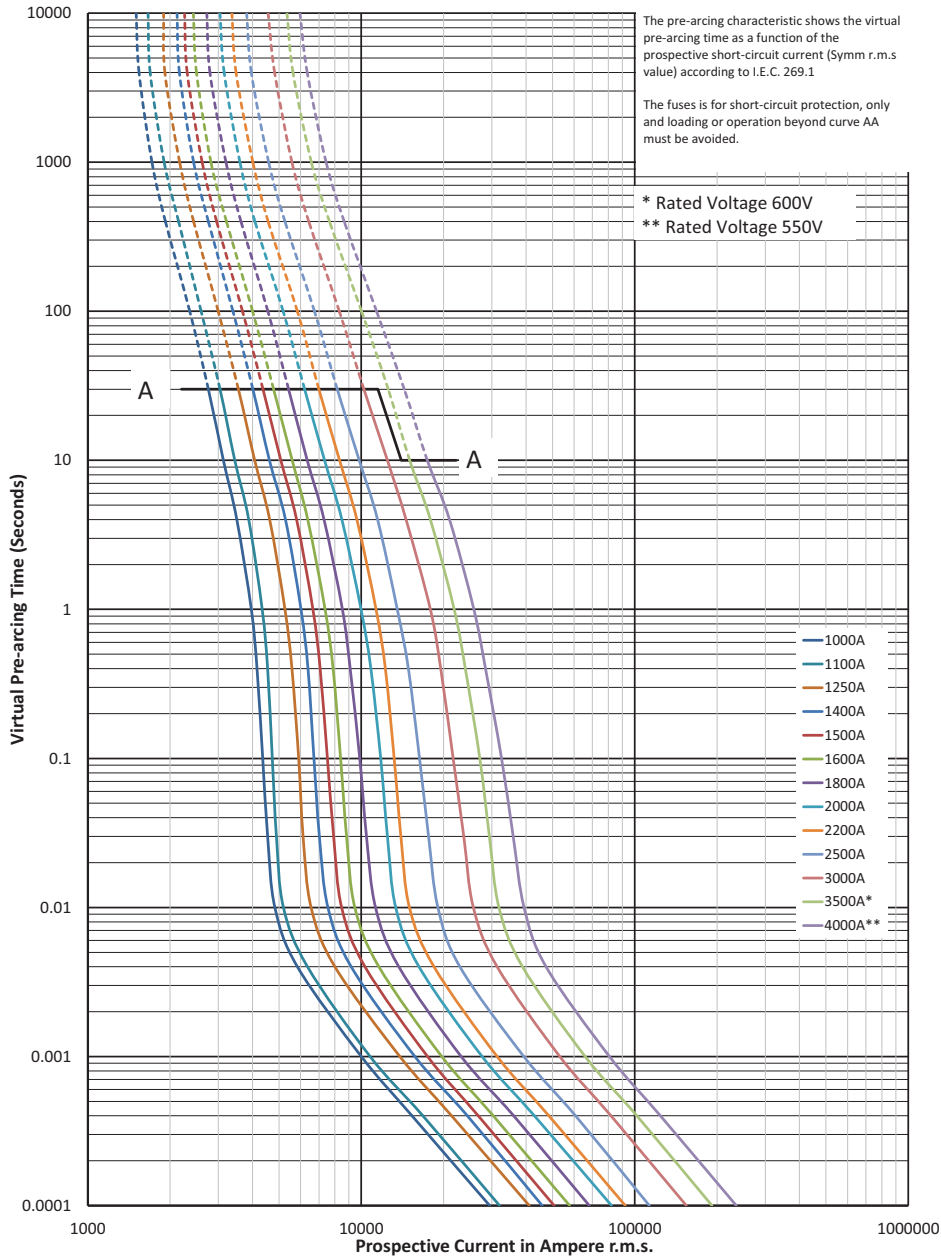
Type -GU/55, -GKE/55, -GKN/55

When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com.

Square body fuse links

170M - Size 23, Flush end contact, 660 V a.c. (IEC), 1000 A to 4000 A

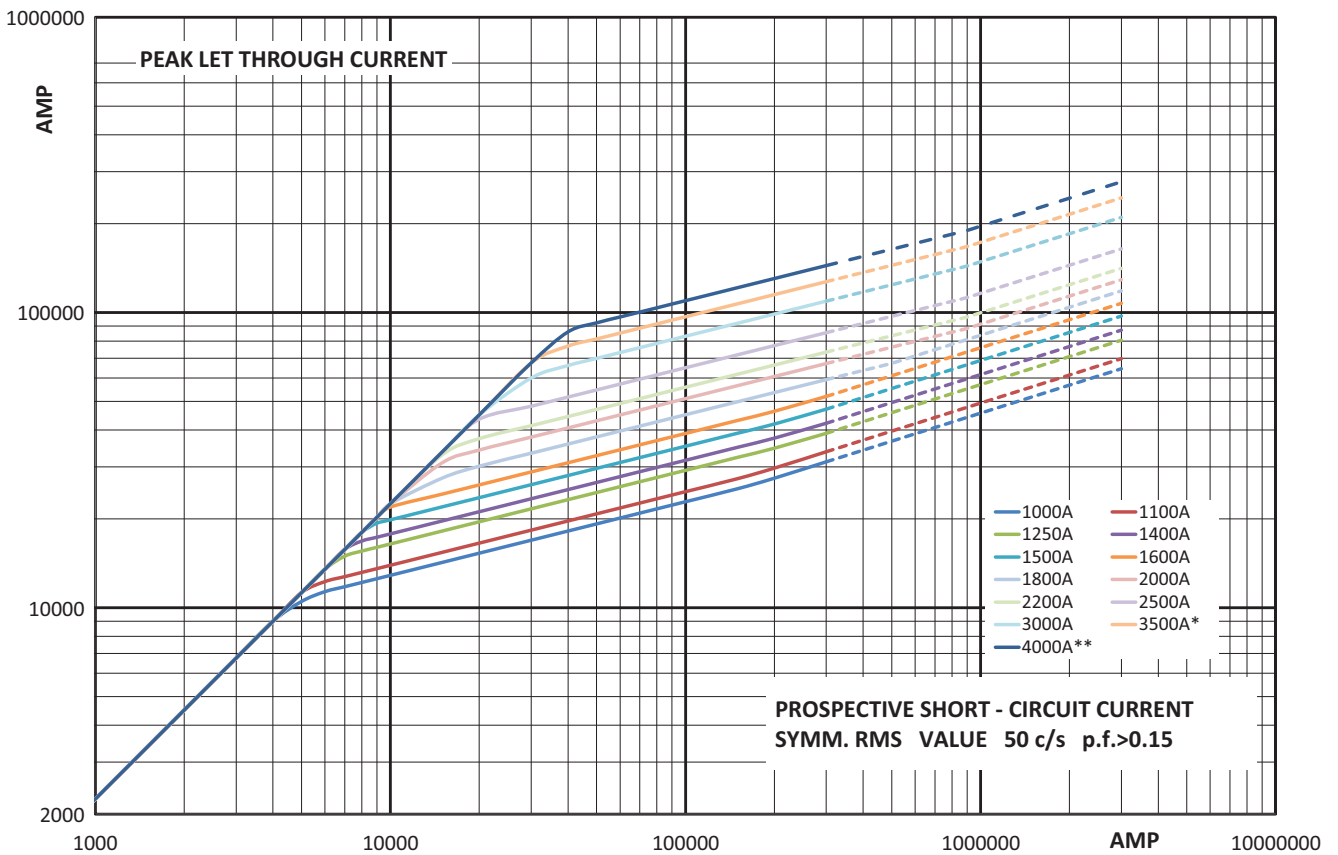
Time-current curve - 1000 A to 4000 A



$K_b = 1$ $N = 1.5$

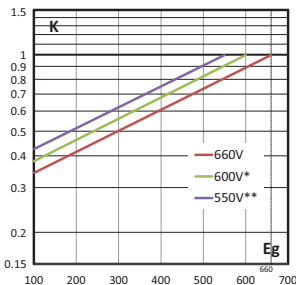
170M - Size 23, Flush end contact, 660 V a.c. (IEC), 1000 A to 4000 A

Cut-off curve - 1000 A to 4000 A



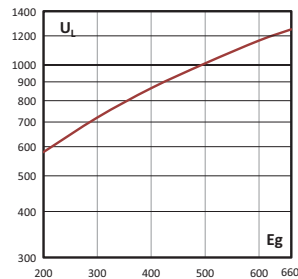
Total clearing I^2t

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).



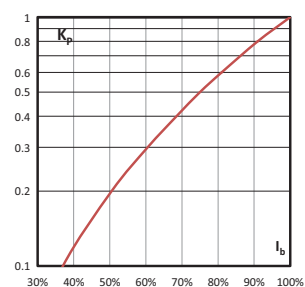
Arc voltage

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.



Square body fuse links

170M - Size 23, Flush end contact, 1250 V a.c. (IEC), 630 A to 2800 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage:
 - 1250 V a.c. (IEC 630 A to 2200 A)
 - 1100 V a.c. (IEC 2500 A and 2800 A)
- Rated current: 630 A to 2800 A
- Breaking capacity: 125kA RMS Sym
- Operating class: aR



Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4

Catalogue numbers

Fuse link body size	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)		Watts loss (W)	Catalogue numbers					
			Pre-arcing	Clearing at 1250 V a.c.		-BU/75 Visual indicator	-BKE/75 Type K indicator	-BKN/75 Type K indicator	-BU/80 Visual indicator	-BKE/80 Type K Indicator	-BKN/80 Type K Indicator
23	1250 V a.c. (IEC)	630	38,000	310,000	170	170M6775	170M6795	170M6785			
		700	54,000	440,000	180	170M6776	170M6796	170M6786			
		800	78,000	640,000	190	170M6777	170M6797	170M6787			
		900	120,000	980,000	200	170M6805	170M6807	170M6806			
		1000	155,000	1,250,000	210	170M6778	170M6798	170M6788			
		1100	220,000	1,750,000	220	170M6779	170M6799	170M6789 ³			
		1250	330,000	2,700,000	230	170M6780	170M6800	170M6790			
		1300	460,000	3,800,000	240	170M6781	170M6801	170M6791			
		1600	820,000	5,200,000	250	170M6782	170M6802	170M6792			
		1800	1,200,000	7,600,000	260	170M6783 ²	170M6803 ²	170M6793 ²			
		2000	1,800,000	11,000,000	270				170M6784	170M6804	170M6794
		2100	2,300,000	14,500,000	280				170M6815	170M6833	170M6827
1100 V a.c. (IEC)	2500	3,200,000	16,000,000 ¹	290				170M6816	170M6834	170M6828	
	2800	5,000,000	24,000,000 ¹	300				170M6817	170M6835	170M6829	

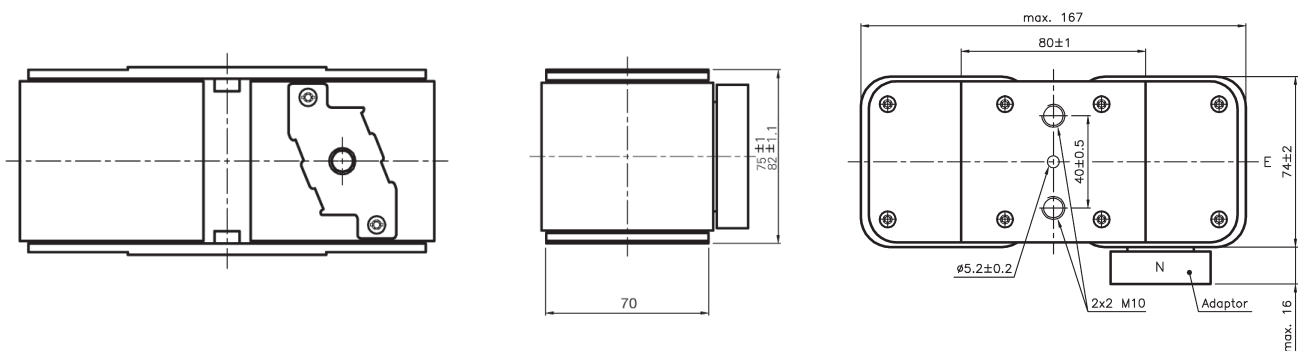
¹ Clearing at 1000 V

² Rated voltage 900 V d.c. 10XIn 90 kA

³ 1000 V d.c. UL 50 kA IR

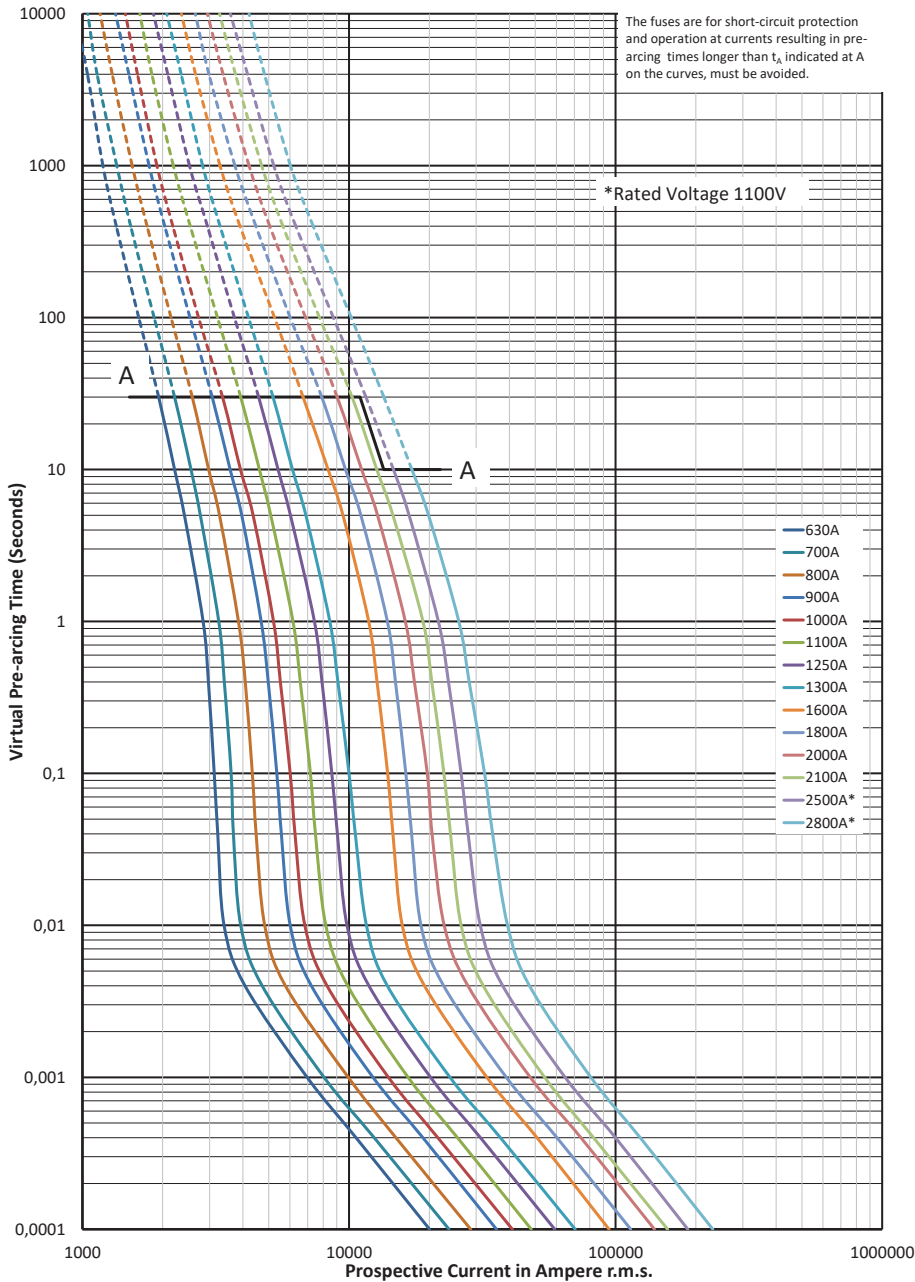
When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com.

Dimensions (mm)



170M - Size 23, Flush end contact, 1250 V a.c. (IEC), 630 A to 2800 A

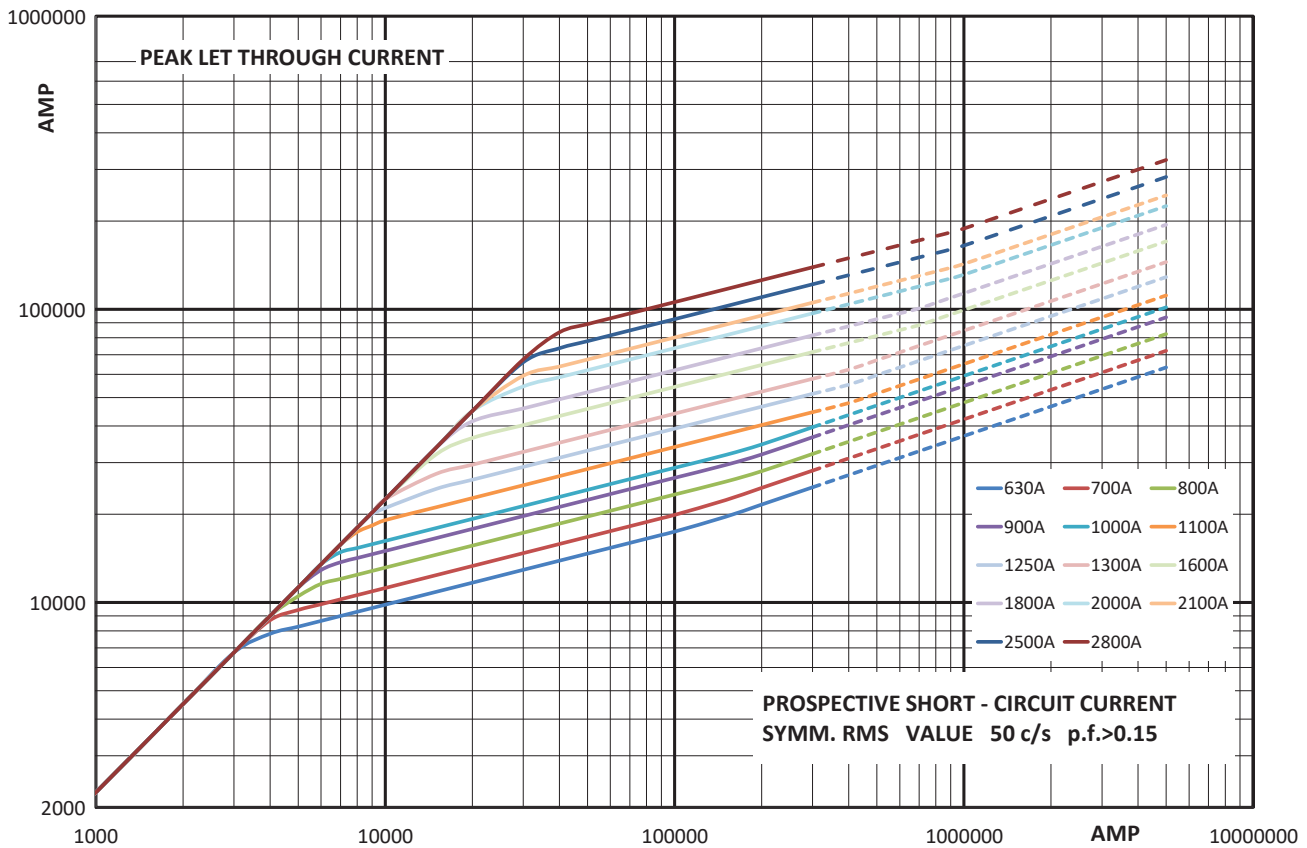
Time-current curve - 630 A to 2800 A



Square body fuse links

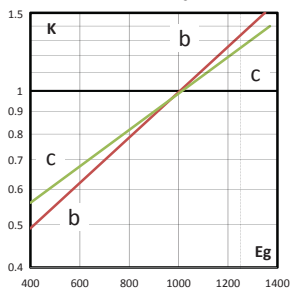
170M - Size 23, Flush end contact, 1250 V a.c. (IEC), 630 A to 2800 A

Cut-off curve - 630 A to 2800 A



Total clearing I²t

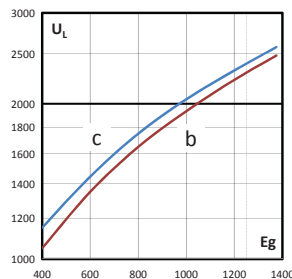
The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).



B: fuses ≤ 1400 A
C: fuses ≥ 1600 A

Arc voltage

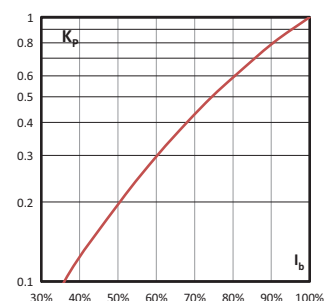
This curve gives the peak arc voltage, U_l, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15 percent.



B: fuses ≤ 1400 A
C: fuses ≥ 1600 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 sheet: 170K6638

170M - Size 24, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 2000 A to 6500 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage: 690 V a.c. (IEC) / 700 V a.c. (UL)
- Rated current: 2000 A to 6500 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR



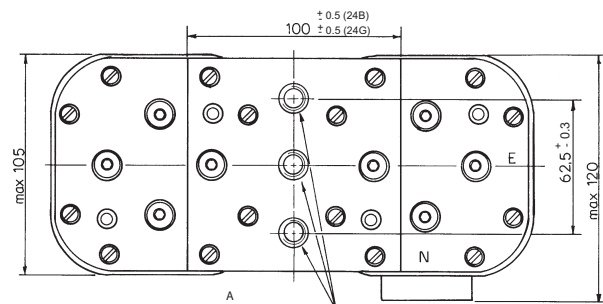
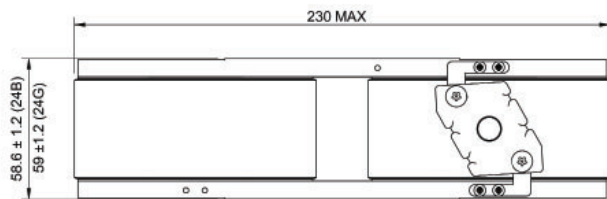
Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4, UL Recognised

Catalogue numbers

Fuse link body size	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)		Watts loss (W)	Catalogue numbers			
			Pre-arcing	Clearing at 660 V a.c.		-BU/60 Without indicator	-BKN/60 Type K indicator	-GU/60 Without indicator	-GKN/60 Type K indicator
24	690 V a.c. (IEC) 700 V a.c. (UL)	2000	340,000	2,300,000	340	170M7138	170M7158	170M7198	170M7218
		2500	650,000	4,350,000	390	170M7139	170M7159	170M7199	170M7219
		3000	1,100,000	7,300,000	430	170M7140	170M7160	170M7200	170M7220
		3500	1,800,000	12,000,000	460	170M7141	170M7161	170M7201	170M7221
		4000	2,700,000	18,000,000	490	170M7142	170M7162	170M7202	170M7222
		4500	3,800,000	25,500,000	520	170M7143	170M7163	170M7203	170M7223
		5000	5,450,000	36,500,000	540	170M7144	170M7164	170M7204	170M7224
		5500	7,400,000	49,500,000	560	170M7145	170M7165	170M7205	170M7225
		6000	9,600,000	64,000,000	580	170M7146	170M7166	170M7206	170M7226
		6500	12,500,000	83,000,000	600	170M7147	170M7167	170M7207	170M7227

Dimensions (mm)



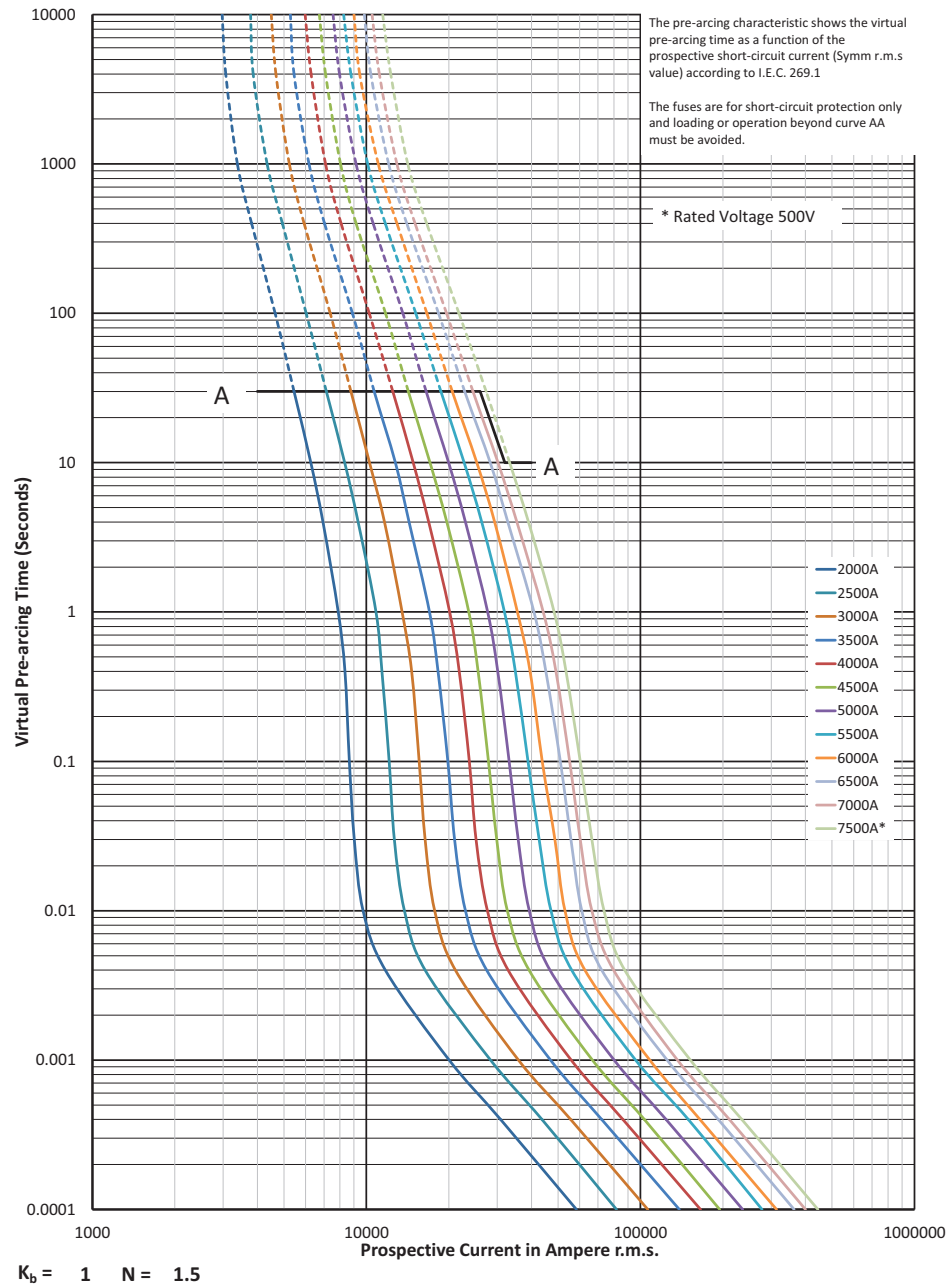
Size	Type	A
24	BKN	2x3 M12
24	GKN	2x3 1/2" -13 UNC-2B

When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com

Square body fuse links

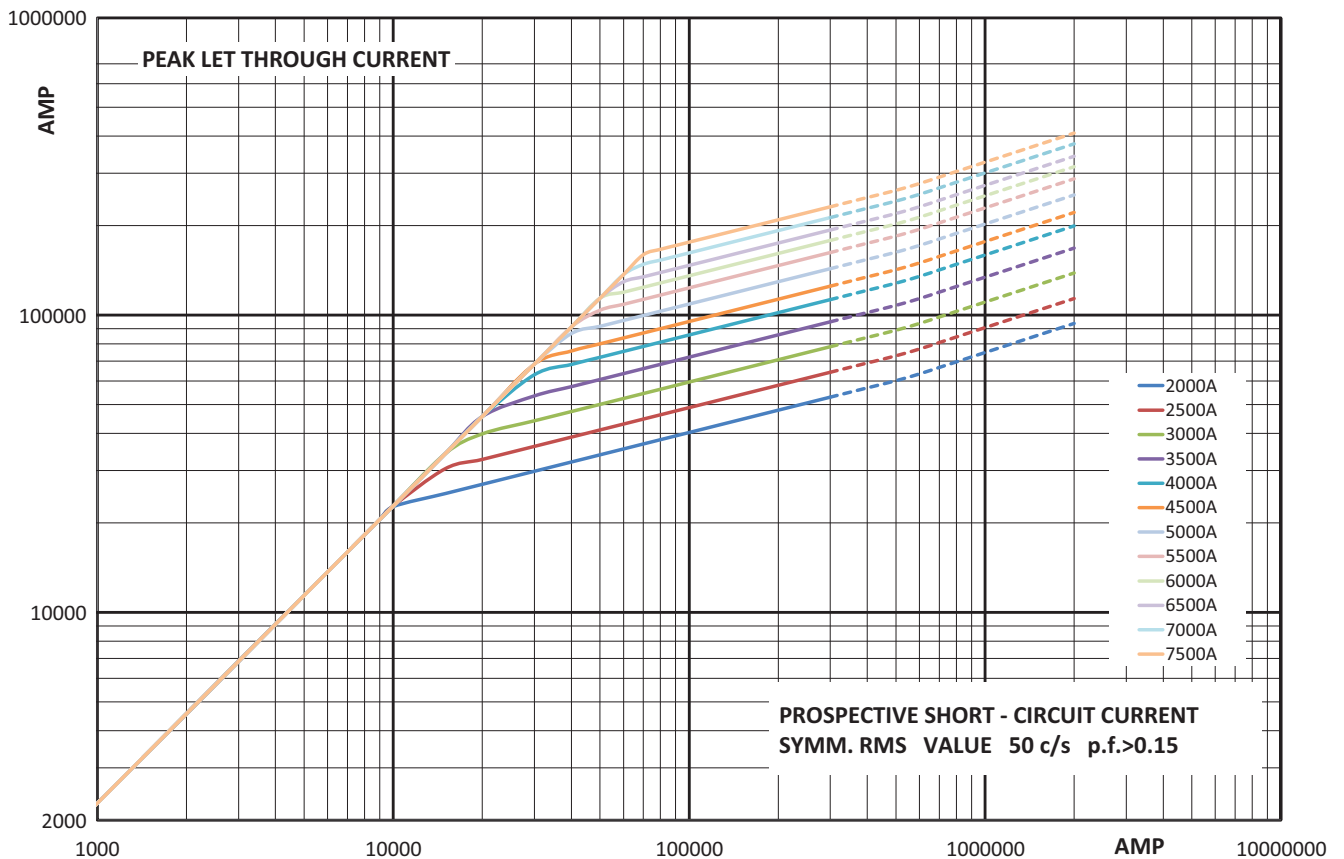
170M - Size 24, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 2000 A to 6500 A

Time-current curve - 2000 A to 7500 A



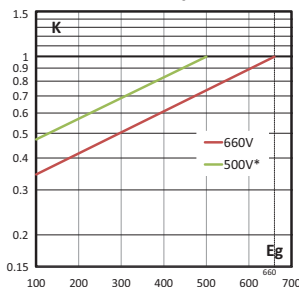
170M - Size 24, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 2000 A to 6500 A

Cut-off curve - 2000 A to 7500 A



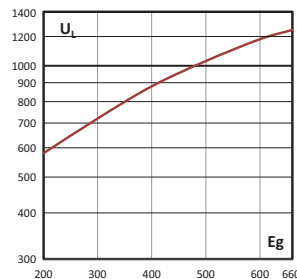
Total clearing I^2t

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).



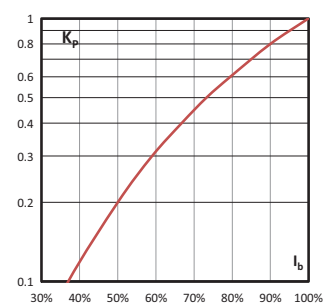
Arc voltage

This curve gives the peak arc voltage, U_a , 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.



Square body fuse links

170M - Size 24, Flush end contact, 1000 V a.c. (IEC and UL), 2000 A to 5000 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage: 1000 V a.c. (IEC and UL)
- Rated current: 2000 A to 5000 A
- Breaking capacity: 166 kA RMS Sym / 100 kA RMS (UL)
- Operating class: aR

Standards / Agency information

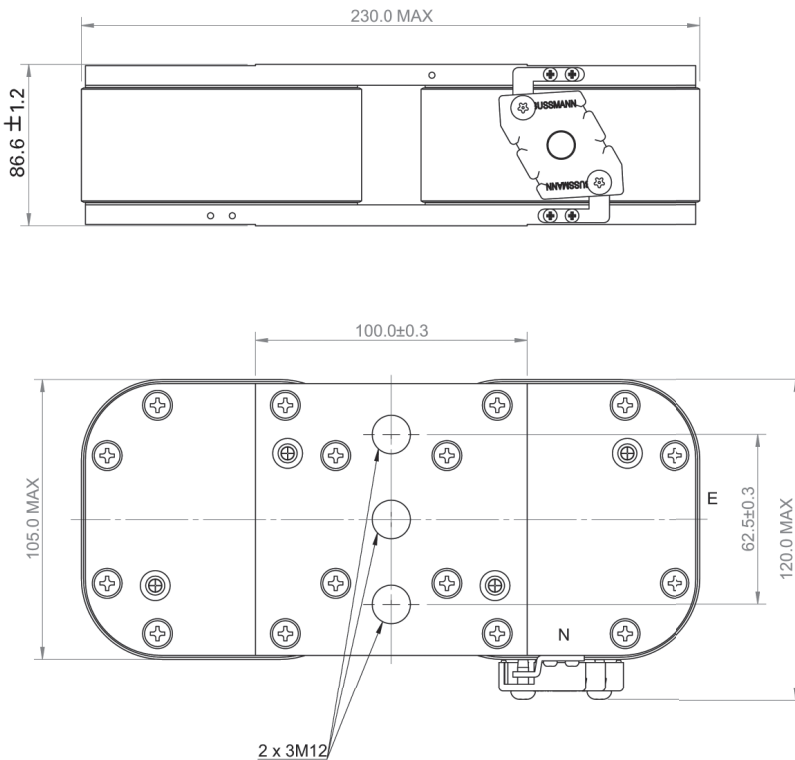
CE, Designed and tested to IEC 60269 Part 4, UL Recognised



Catalogue numbers

Fuse link body size	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)			Catalogue numbers
			Pre-arcing	Clearing at 1000 V a.c.	Watts loss (W)	-BKN/85 Type K indicator
24	1000 V a.c. (IEC & UL)	2000	900,000	5,350,000	345	170M7608
		3000	2,950,000	17,500,000	430	170M7680
		3200	3,300,000	20,000,000	440	170M7567
		3500	4,500,000	27,000,000	450	170M7568
		4000	6,800,000	40,000,000	475	170M7569
		4200	8,000,000	47,500,000	485	170M7498
		4500	10,000,000	59,000,000	495	170M7488
		5000	14,000,000	82,500,000	540	170M7622

Dimensions (mm)



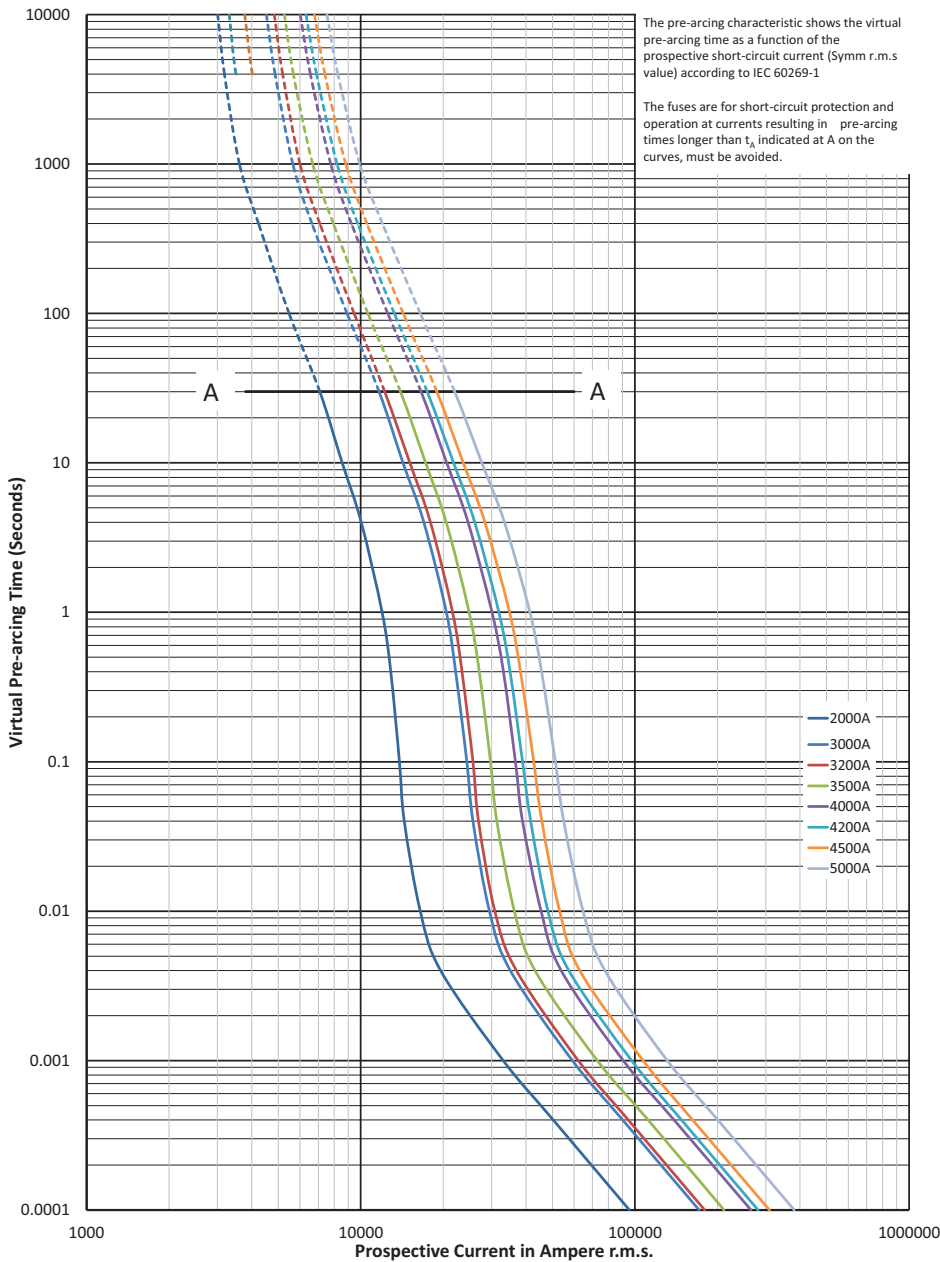
The normal position of the indicator is as shown position N, position E on request only

When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com.

Data sheets: 170K8514

170M - Size 24, Flush end contact, 1000 V a.c. (IEC and UL), 2000 A to 5000 A

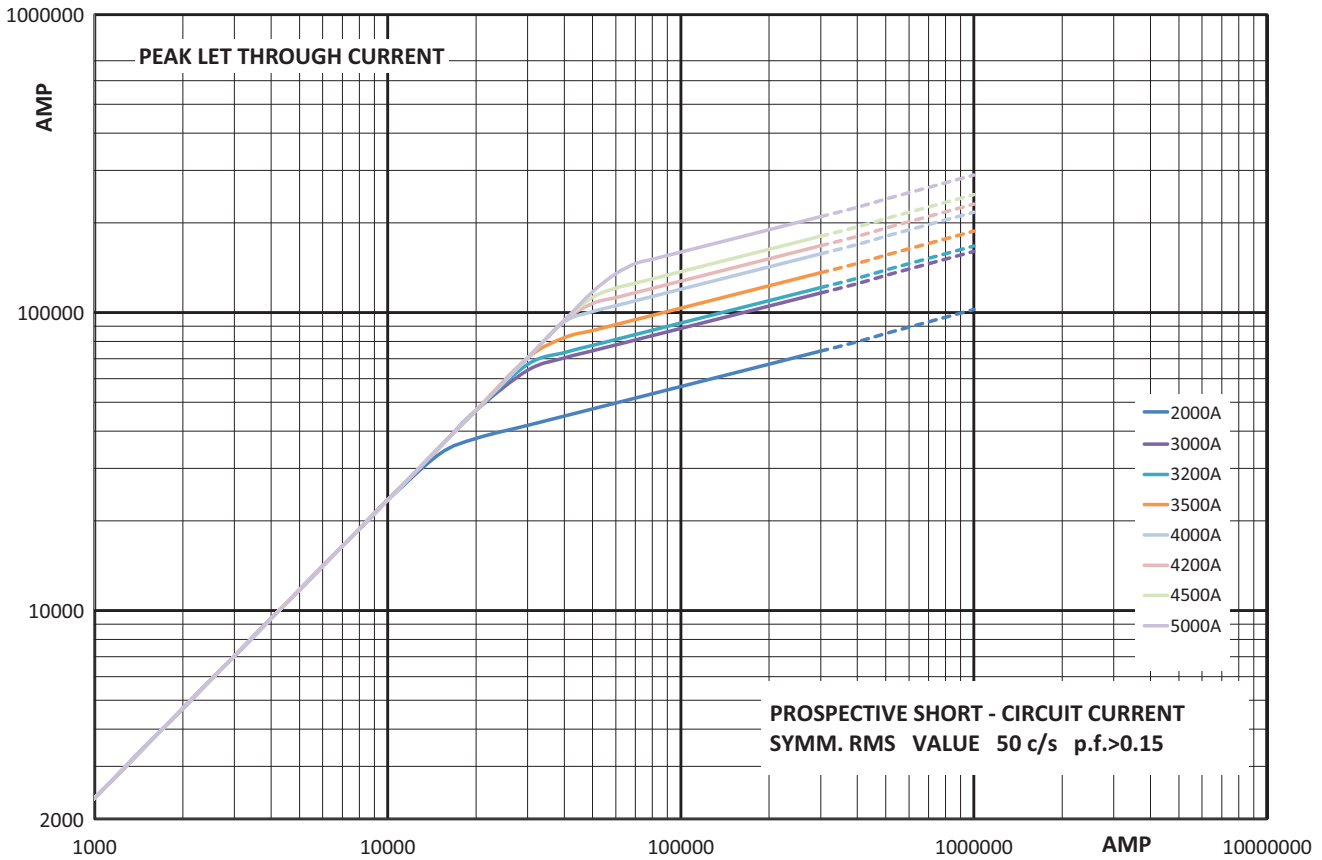
Time-current curve - 2000 A to 5000 A



Square body fuse links

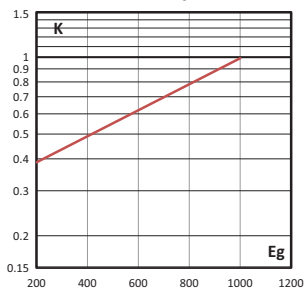
170M - Size 24, Flush end contact, 1000 V a.c. (IEC and UL), 2000 A to 5000 A

Cut-off curve - 2000 A to 5000 A



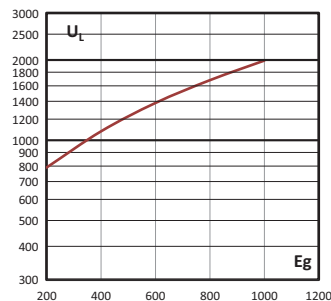
Total clearing I²t

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).



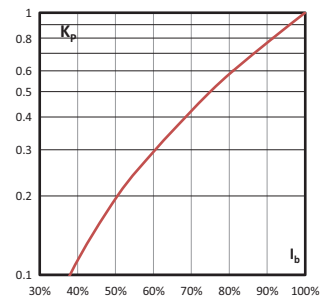
Arc voltage

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: 170K8514

170M - Size 5, Flush end contact, 1100-2000 V a.c. (IEC), 1800 A to 5500 A

Specifications

Description

Square body flush end contact high speed fuse links, for the protection or isolation for components such as diodes, silicon controlled rectifiers (SCRs), Gate Turn-Off Thyristors (GTOs) and IGBTs. Typical application include AC and DC drives, high power rectifiers.

Technical data

- Rated voltage: 1100-2000 V a.c. (IEC)
- Rated current: 1800 A to 5500 A
- Breaking capacity: 300 kA RMS Sym. estimated: 197 kA tested
- Operating class: aR

Standards / Agency information

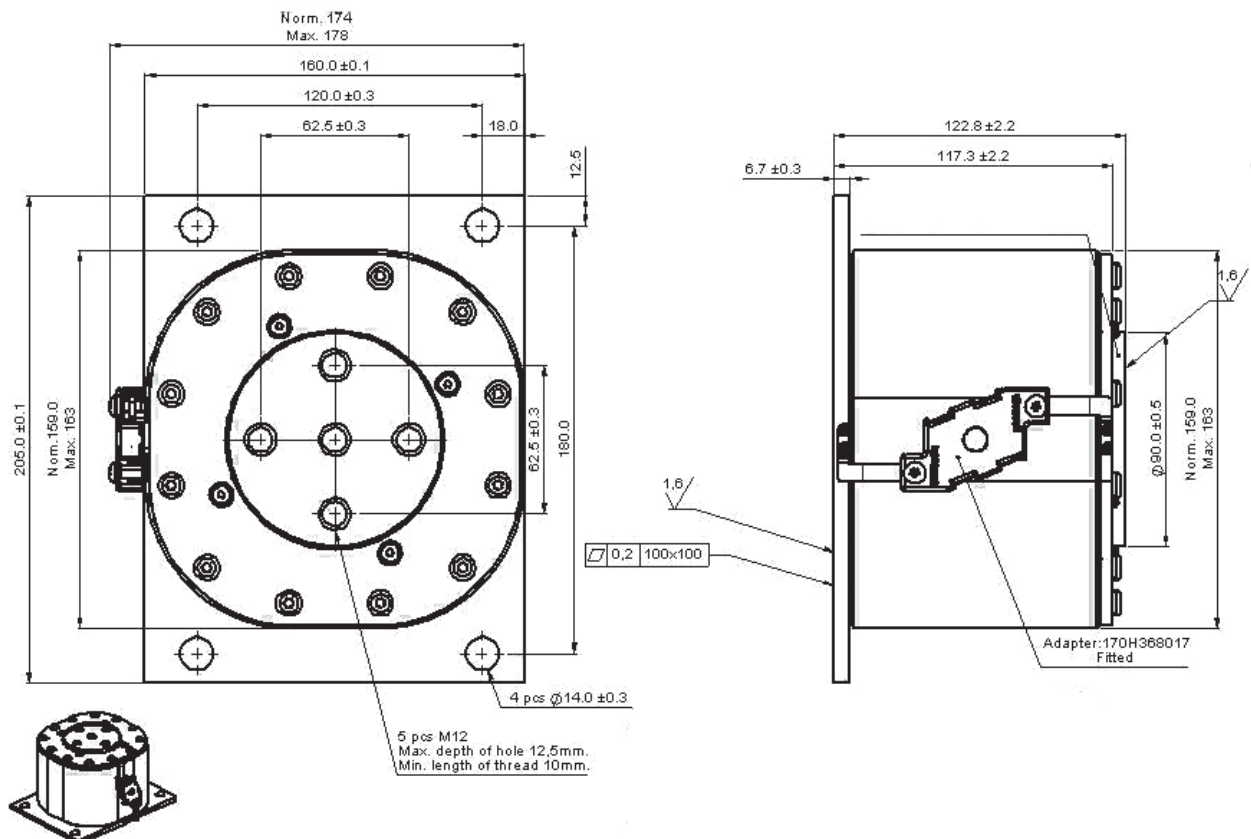
Consult Eaton bulehighspeedtechnical@eaton.com

Catalogue Numbers

Consult Eaton bulehighspeedtechnical@eaton.com



Dimensions (mm)



This dimension drawing is an example of the range of size 5 fuse links available.