DIN 43620 Dual indication fuse links



Product description

Eaton's Bussmann® series DIN 43620 dual indicator fuse links protect UPS, soft starters, solid state relays, variable speed drives, rectifiers and inverters.

Features

- Dual indicator system

Powering Business Worldwide

Catalogue symbol

- 170MxxxxD

Technical data

- Rated voltage: 690 V a.c.
- Rated current: 10 to 1600 A
- Breaking capacity: 200 kA RMS Sym
- Class of operation:
  - gR (size 00 10 to 63 A)
  - aR others

Standards/Approvals

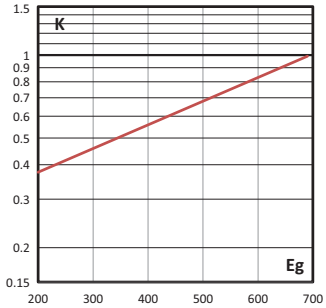
- CE
- Designed and tested to IEC 60269 part 4
- UL recognised (survival only)
- CSA
- RoHS compliant

Packaging

- Size 000: 10
- Size 00: 6
- Size 1: 6
- Size 2: 3
- Size 3: 1

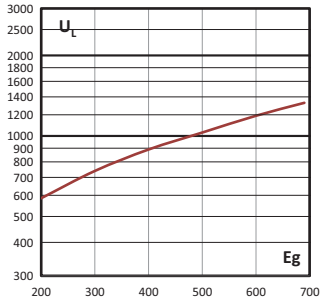
Total clearing I^2t

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



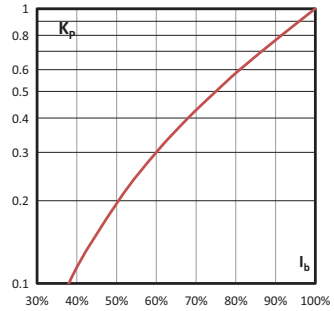
Arc voltage

This curve gives the peak arc voltage, UL, which may appear across the fuse during its operation as a function of the applied working voltage, Egrection factor, K, given as a function of applied working voltage Eg (rms) at a power factor of 15%.



Power losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, Kp, is given as a function of the RMS load current, Ib, in % of the rated current.



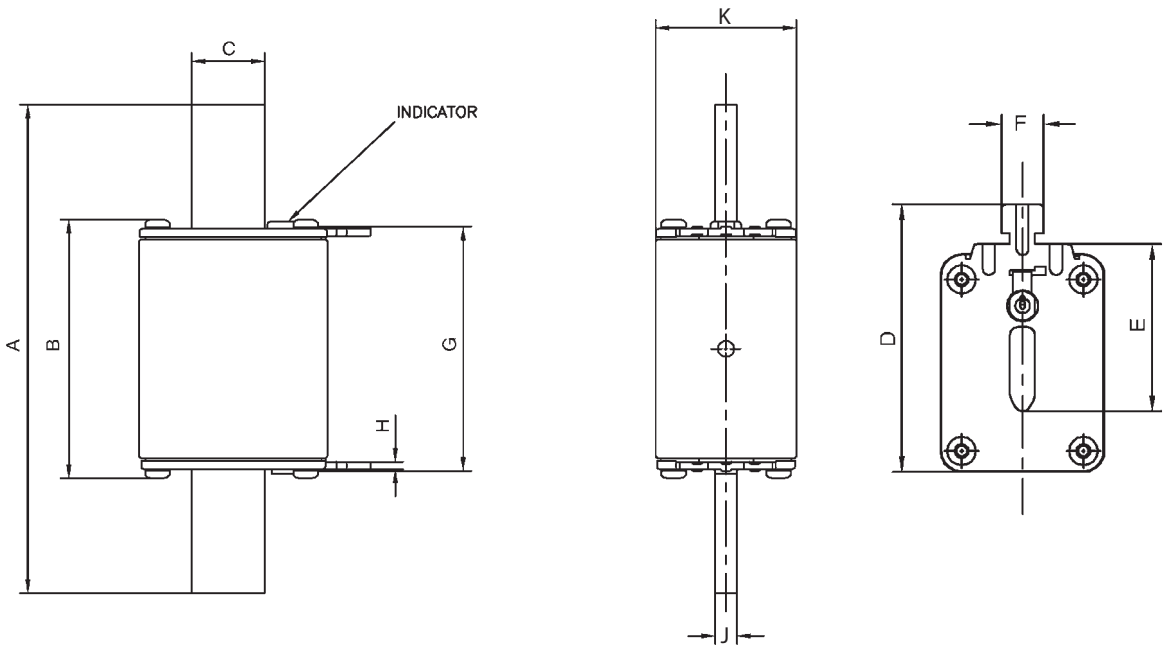
DIN 43620 Dual indication fuse links

Table 1. Technical Data

Catalogue numbers	Size	Rated current RMS (Amps)	I²t (A²sec) Minimum pre-arcing	I²t (A²sec) Clearing at 690 V a.c.	Watts loss
170M1558D	000	10	4	27	2.5
170M1559D		16	7	51	4
170M1560D		20	11.5	82.5	5
170M1561D		25	19	140	6
170M1562D		32	40	285	7
170M1563D		40	65	490	8.5
170M1564D		50	115	815	9.5
170M1565D		63	215	1550	11.5
170M1566D		80	380	2700	15
170M1567D		100	695	4950	16.5
170M1568D		125	1180	8250	21.5
170M1569D		160	2300	16,500	25
170M1570D		200	4350	31,000	29.5
170M1571D		250	7900	56,000	35.5
170M1572D	00	315	12,000	84,500	45
170M3808D	1	40	40	285	4
170M3809D		50	78	550	4.5
170M3810D		63	120	850	6.5
170M3811D		80	185	1350	8.5
170M3812D		100	360	2600	10
170M3813D		125	550	3900	11
170M3814D		160	1150	8250	12
170M3815D		200	2300	16,500	12.5
170M3816D		250	4350	31,000	16
170M3817D		315	7300	52,000	20
170M3818D		350	10,000	73,000	21.5
170M3819D		400	16,000	115,000	23
170M4863D		450	21,500	155,000	26.5
170M4864D		500	27,000	190,000	28.5
170M4865D		550	33,500	240,000	33
170M4866D		630	48,500	345,000	37.5
170M4867D		700	69,500	495,000	39
170M5808D	2	400	11,000	79,000	29
170M5809D		450	16,000	115,000	32
170M5810D		500	21,500	155,000	34
170M5811D		550	29,000	215,000	36
170M5812D		630	41,000	295,000	42
170M5813D		700	60,500	430,000	43
170M5814D		800	86,000	610,000	48
170M5820D		900	125,000	895,000	52
170M5816D		1000	180,000	1,300,000	53
170M5817D		1100	245,000	1,750,000	56
170M6808D	3	500	14,000	99,500	43
170M6809D		550	19,500	140,000	44
170M6810D		630	31,000	220,000	45
170M6811D		700	45,000	320,000	46
170M6812D		800	69,500	490,000	48
170M6813D		900	100,000	720,000	50
170M6814D		1000	140,000	985,000	56
170M6892D		1100	190,000	1,400,000	57
170M8554D		1250	300,000	2,150,000	61
170M8555D		1400	380,000	2,700,000	70
170M8556D		1500	470,000	3,350,000	72
170M8557D		1600	585,000	4,150,000	74

* The rated current of this range has been given with copper conductors that have a current density of 1.3 A/mm² IEC 60269-1, the fuse links with a rated current higher than 125 A must be derated. Please contact Eaton's Bussmann series application engineers bulehighspeedtechnical for application assistance.

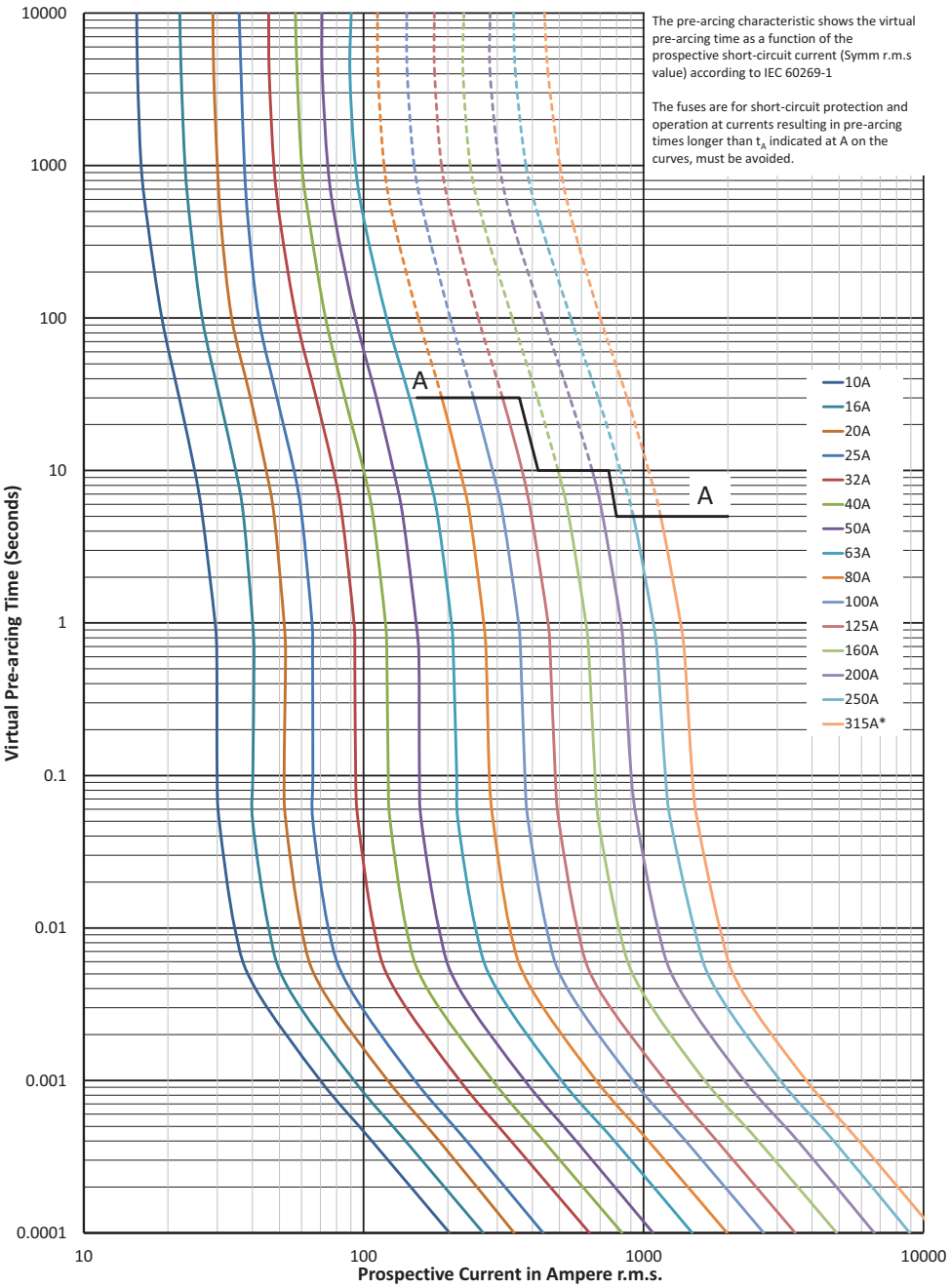
Dimensions - mm



Size	A	B	C	D	E	F	G	H	J	K
000	78.5	53	15	52	35	10	49.7	1.5	6	20.5
00	78.5	53	15	59	35	10	49.7	2	6	30
1	135	71.4	20	64	40	10	67.5	2	6	40
2	150	71.4	25.1	72	48	10	67.5	2	6	54
3	150	72.4	32	87	60	10	68.5	2.5	6	71

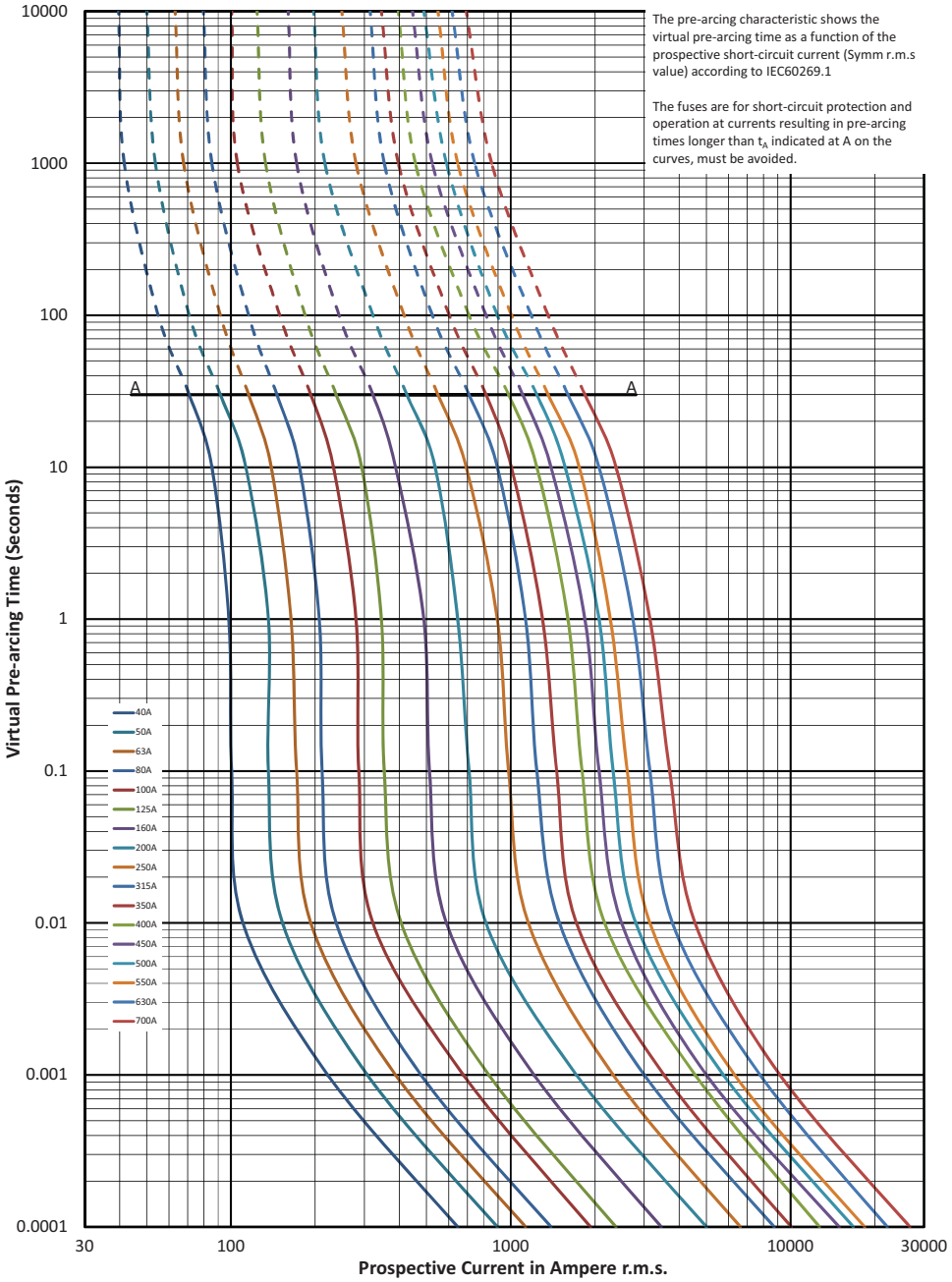
DIN 43620 Dual indication fuse links

Time-current curve sizes 000 and 00 - 10 A to 315 A

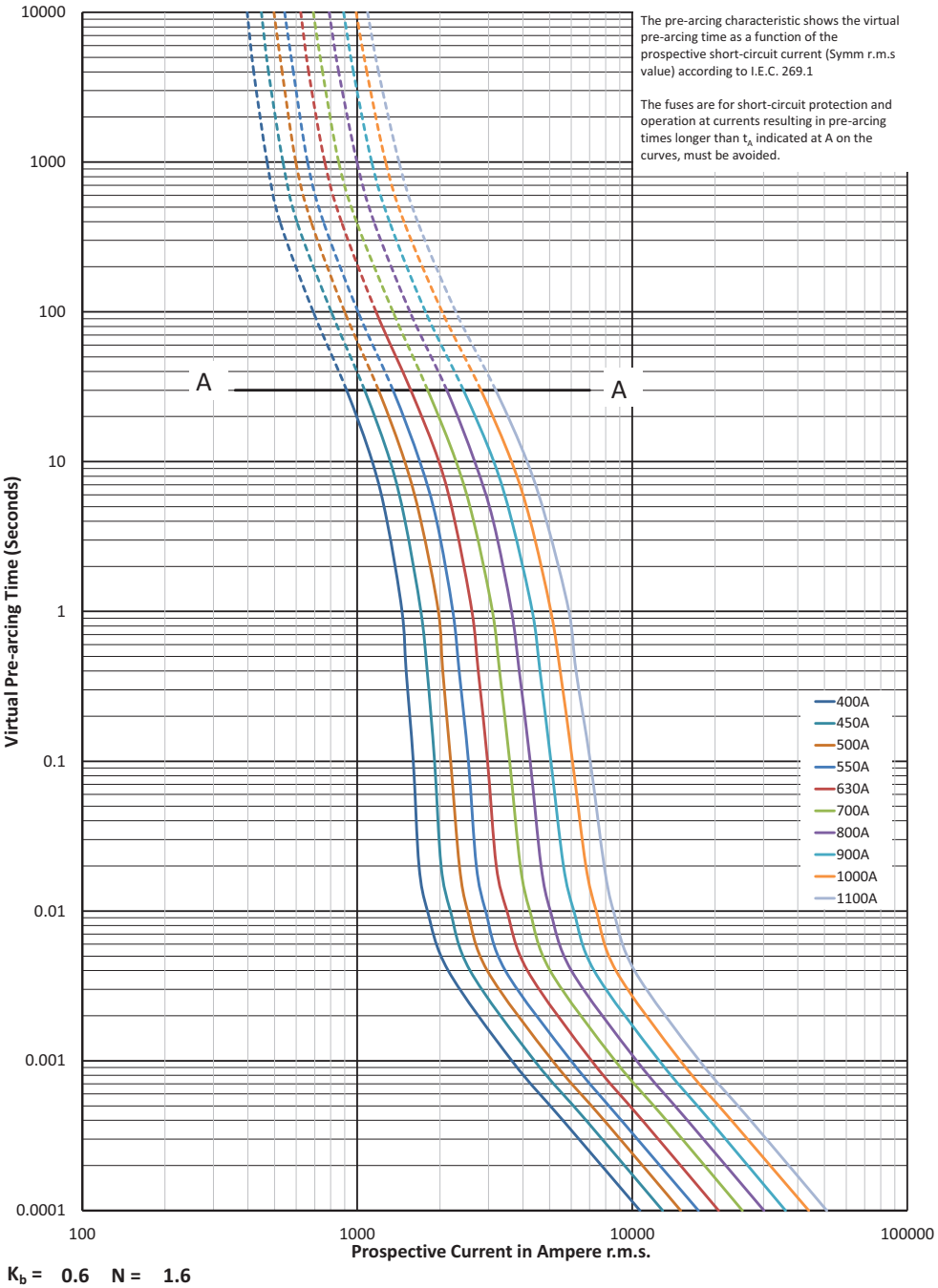


K_b = 1 N = 1.6

Time-current curve size 1 - 40 A to 700 A

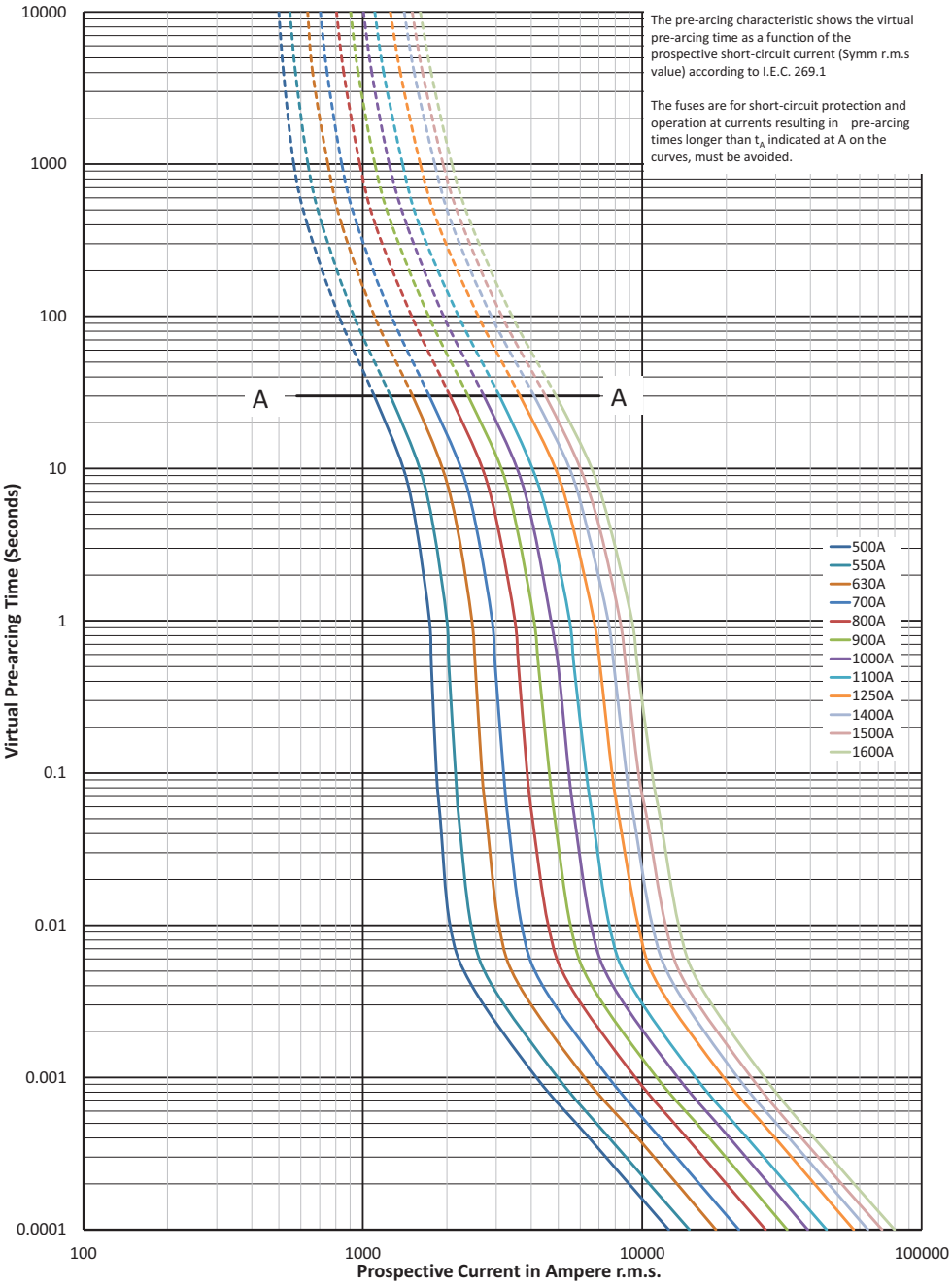


Time-current curve size 2 - 400 A to 1100 A



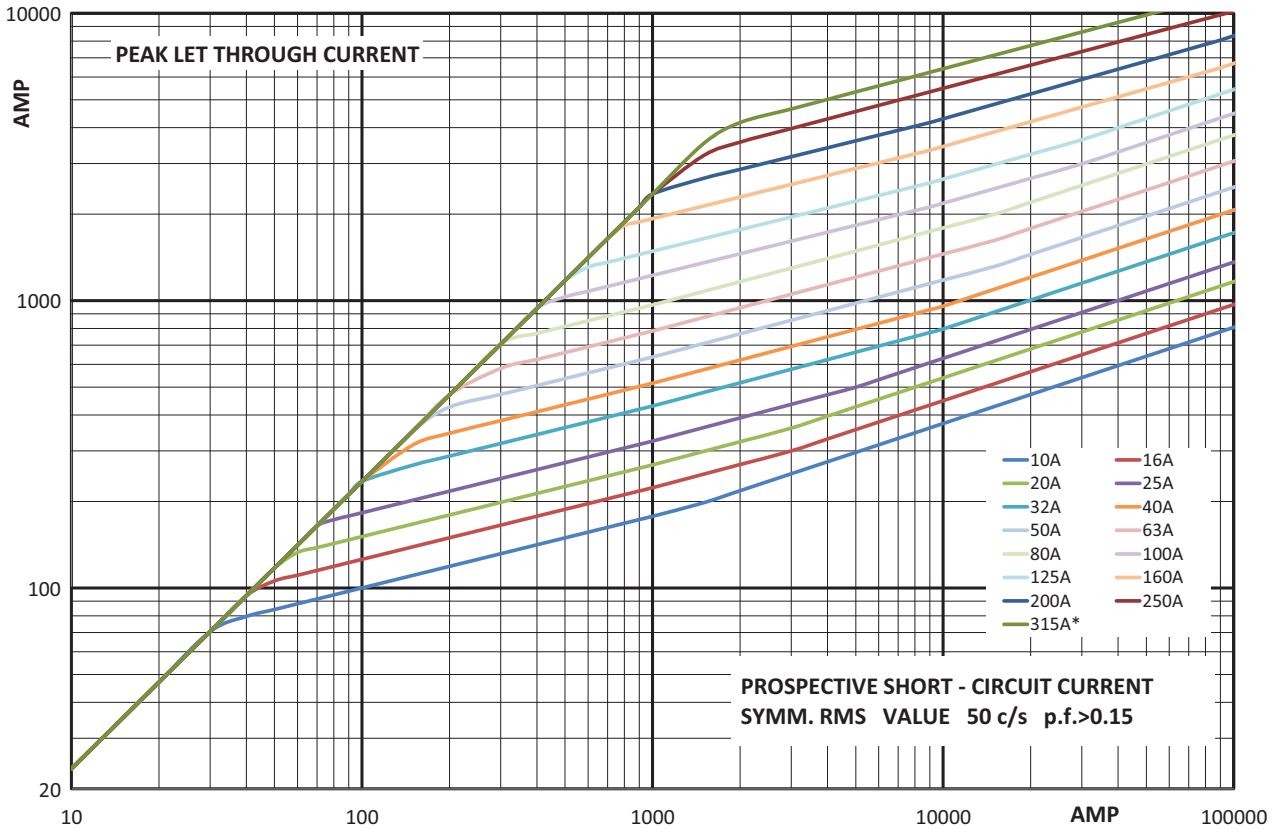
K_b = **0.6** **N** = **1.6**

Time-current curve size 3 - 500 A to 1600 A

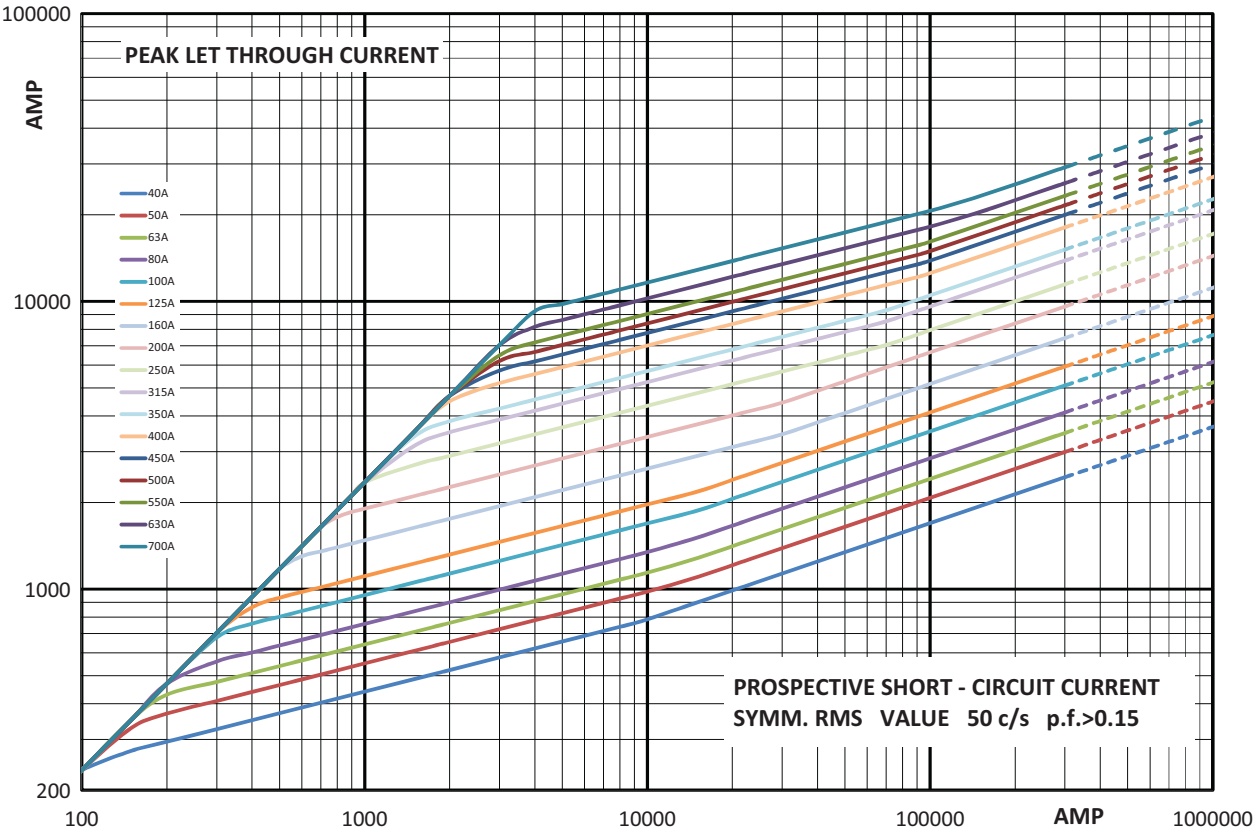


K_b = 0.6 N = 1.6

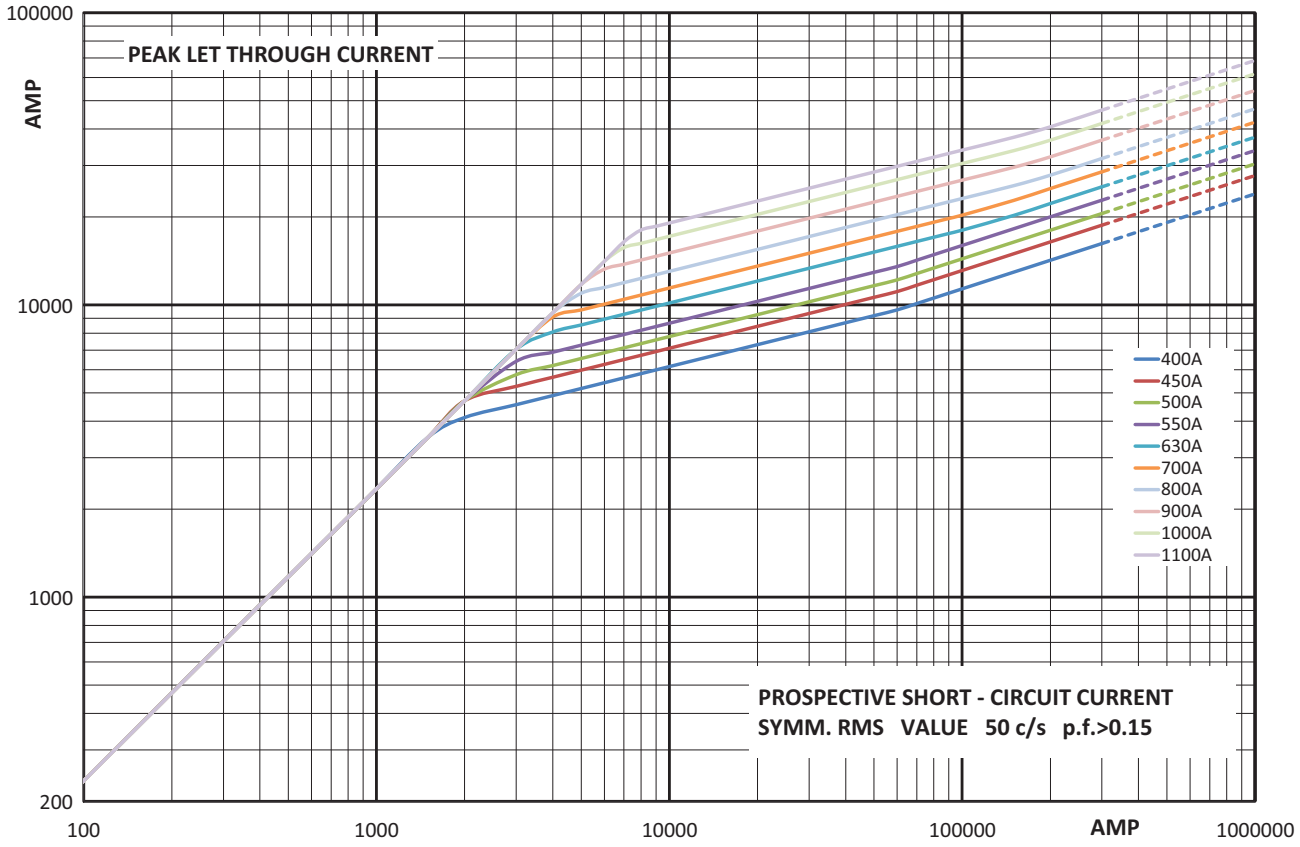
Cut-off curve sizes 000 amd 00 - 10 A to 315 A



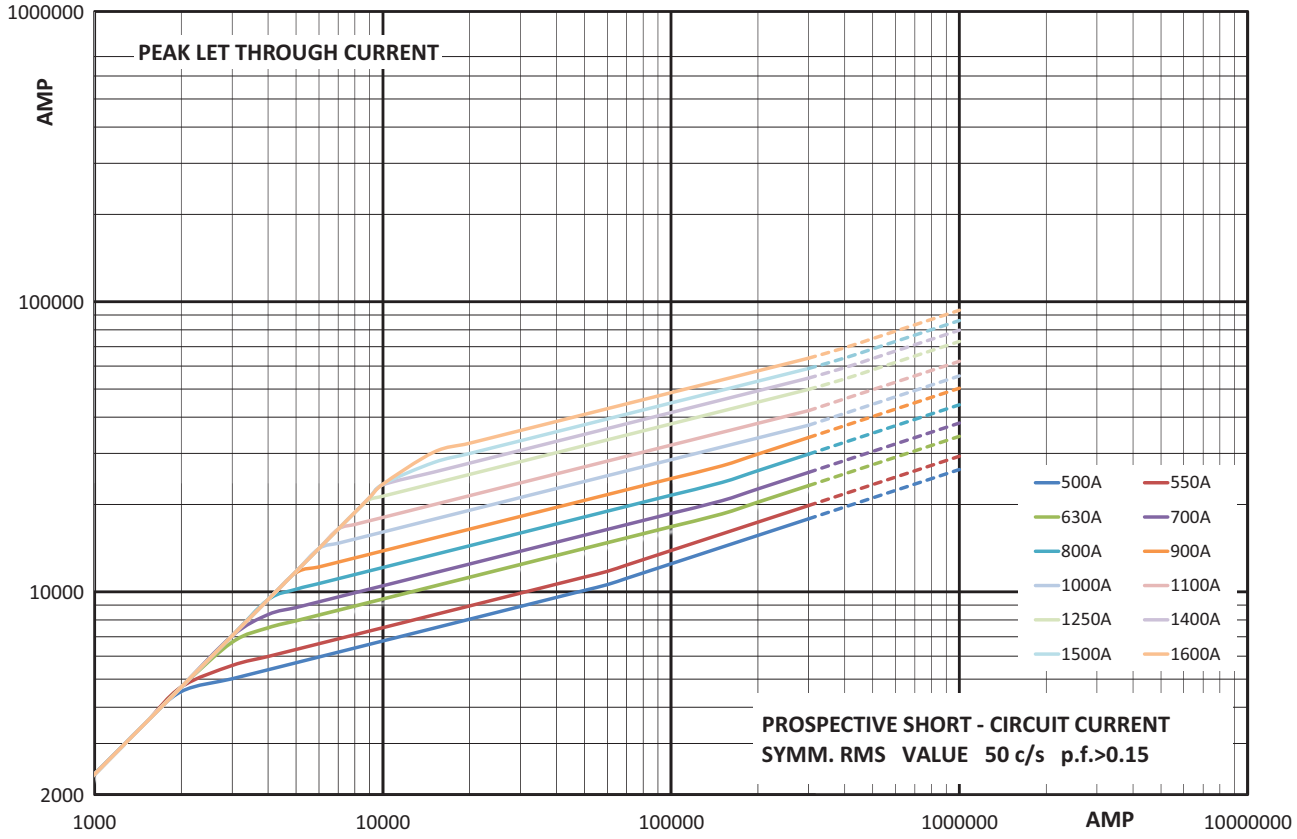
Cut-off curve size 1 - 40 A to 700 A



Cut-off curve size 2 - 400 A to 1100 A



Cut-off curve size 3 - 500 A to 1600 A



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