

Technical Data **720101**Effective May 2020
Supersedes October 2017**BUSSMANN**
SERIES

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

EATON*Powering Business Worldwide*

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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

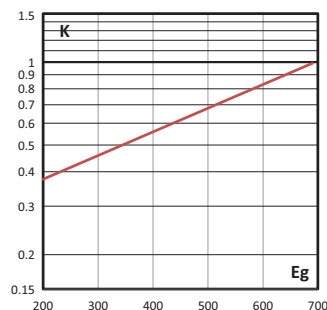
- CE
- Designed and tested to IEC 60269 part 4
- UL recognised (survival only)
- CSA
- RoHS compliant

Packaging

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

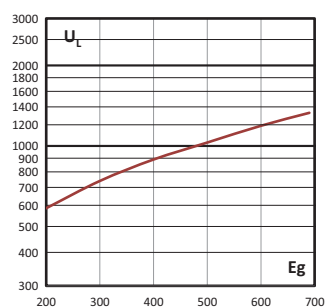
Total clearing I^2t

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 E_g (rms)



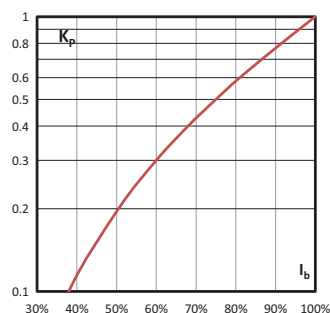
Arc voltage

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%.



Power losses

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



DIN 43620 Dual indication fuse links

Table 1. Technical Data

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

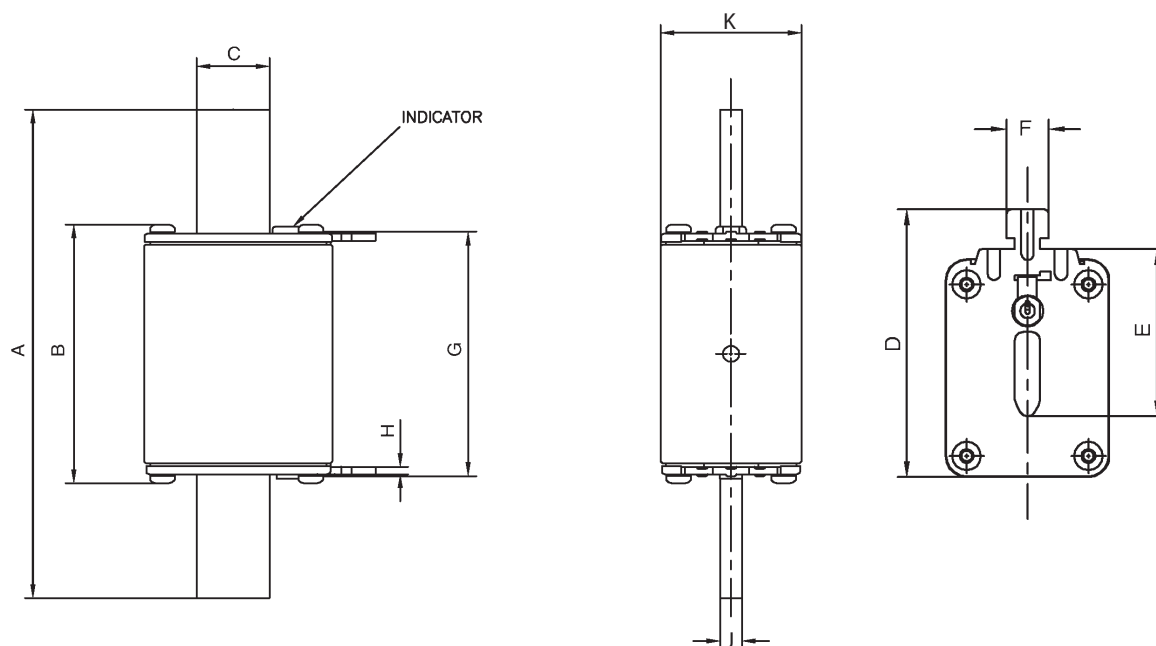
* The rated current of this range has been given with copper conductors that have a current density of 1.3 A/mm² IEC 60269-1, the fuse links with a rated current higher than 125 A must be derated. Please contact Eaton's Bussmann series application engineers bulehighspeedtechnical for application assistance.

Technical Data 720101

Effective May 2020

DIN 43620 Dual indication fuse links

Dimensions - mm



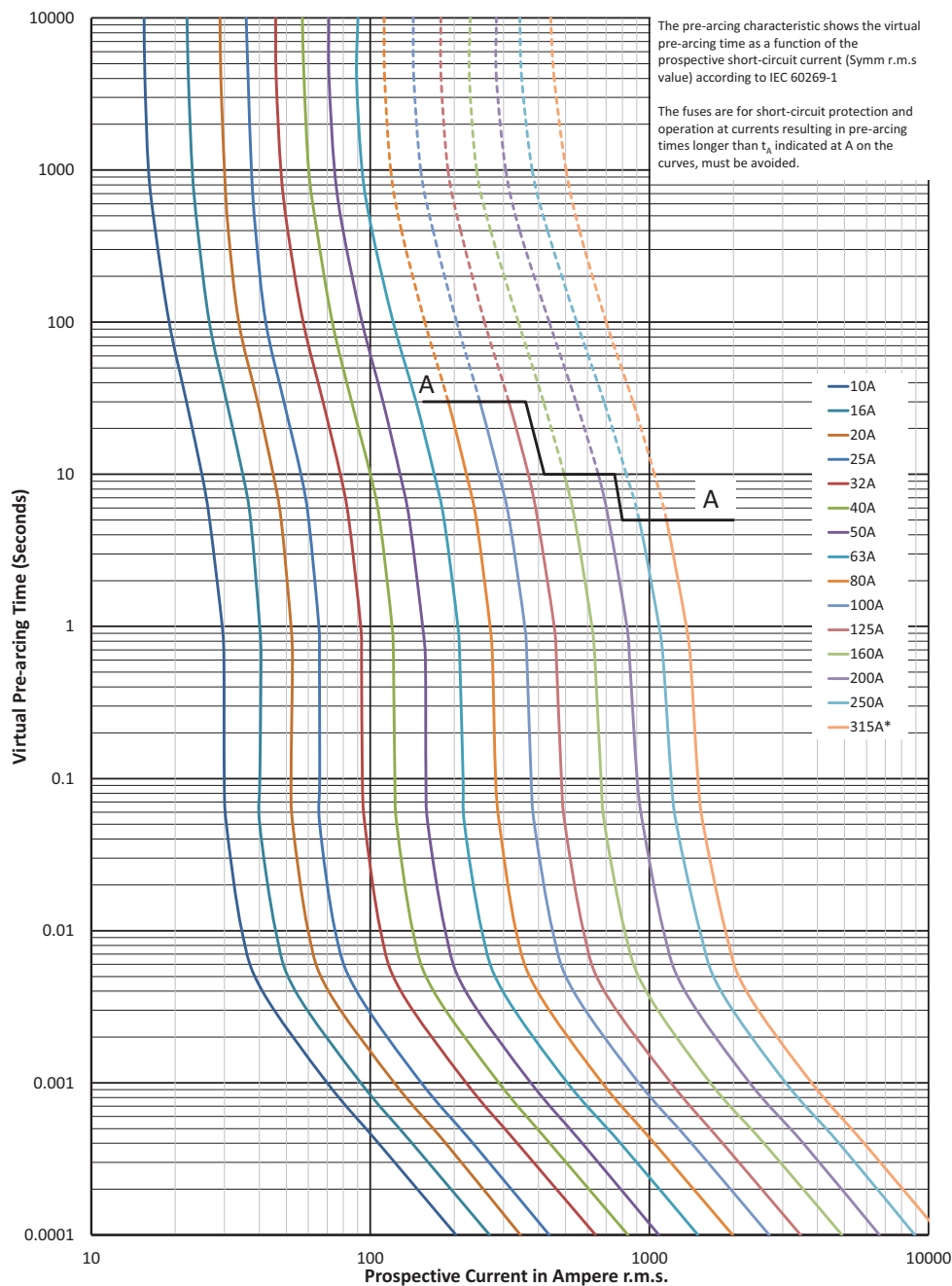
Size	A	B	C	D	E	F	G	H	J	K
000	78.5	53	15	52	35	10	49.7	1.5	6	20.5
00	78.5	53	15	59	35	10	49.7	2	6	30
1	135	71.4	20	64	40	10	67.5	2	6	40
2	150	71.4	25.1	72	48	10	67.5	2	6	54
3	150	72.4	32	87	60	10	68.5	2.5	6	71

DIN 43620 Dual indication fuse links

Technical Data 720101

Effective May 2020

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



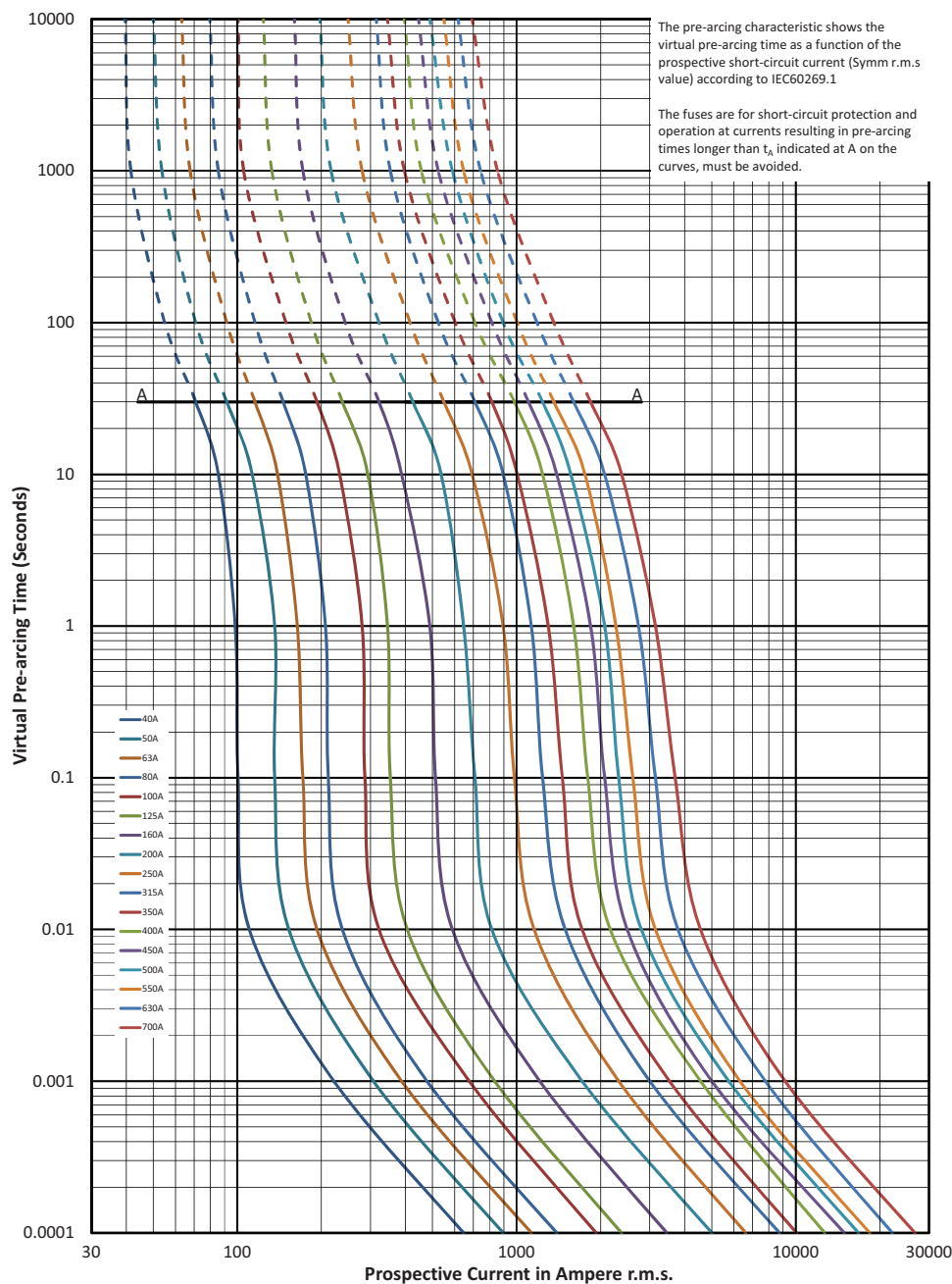
$K_b = 1$ $N = 1.6$

Technical Data 720101

Effective May 2020

DIN 43620 Dual indication fuse links

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

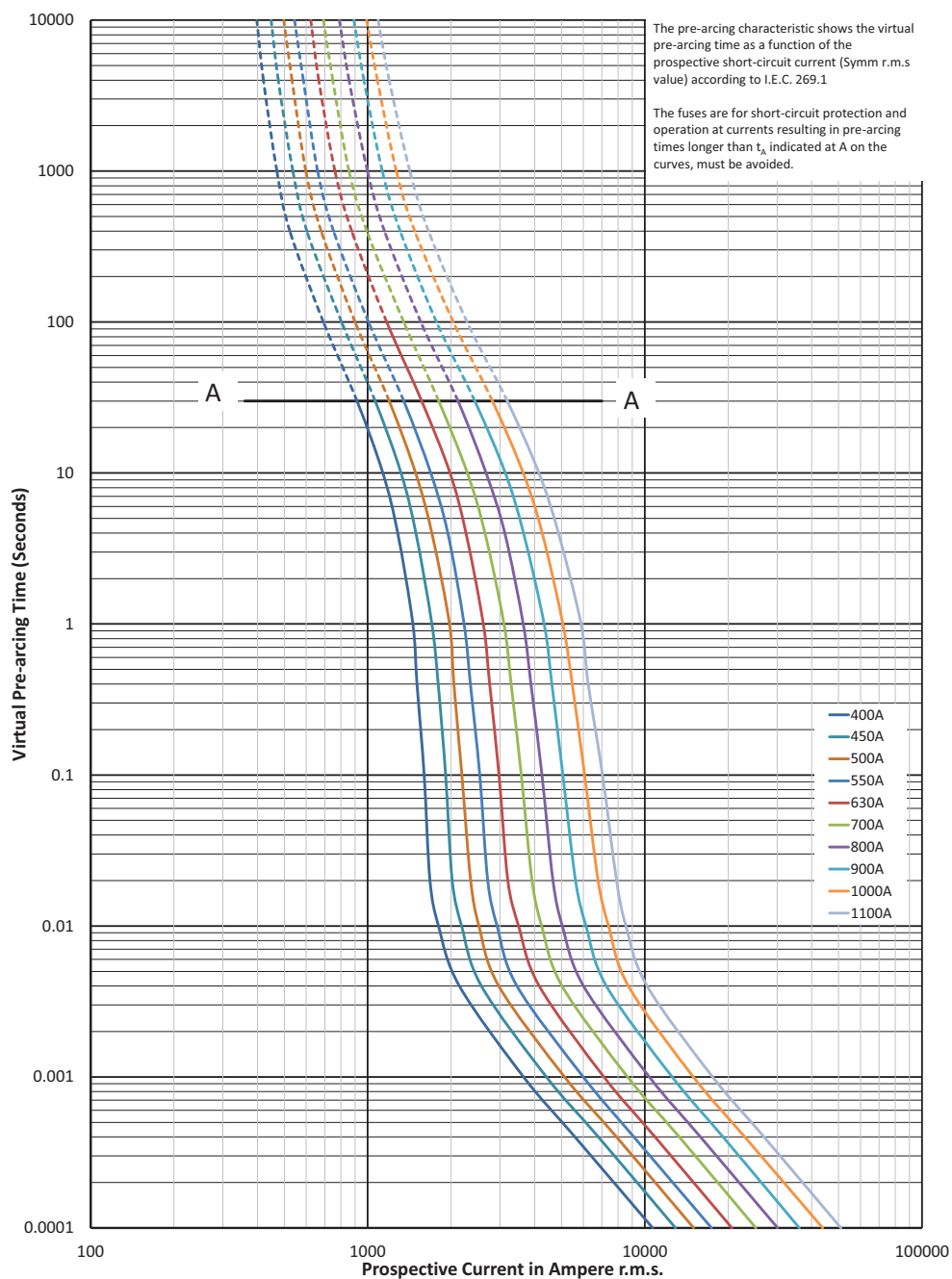


DIN 43620 Dual indication fuse links

Technical Data 720101

Effective May 2020

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

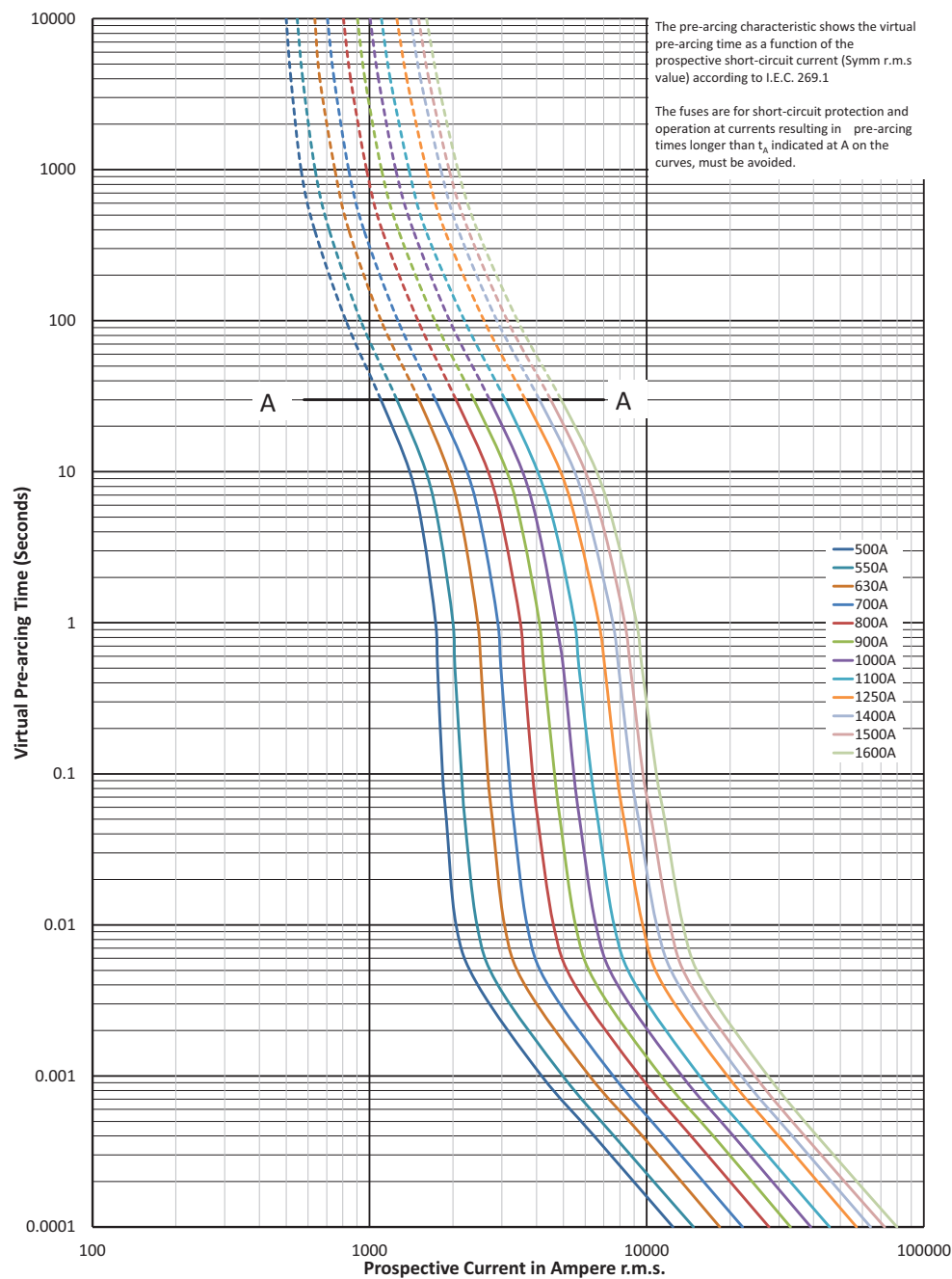
 $K_b = 0.6$ $N = 1.6$

Technical Data 720101

Effective May 2020

DIN 43620 Dual indication fuse links

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

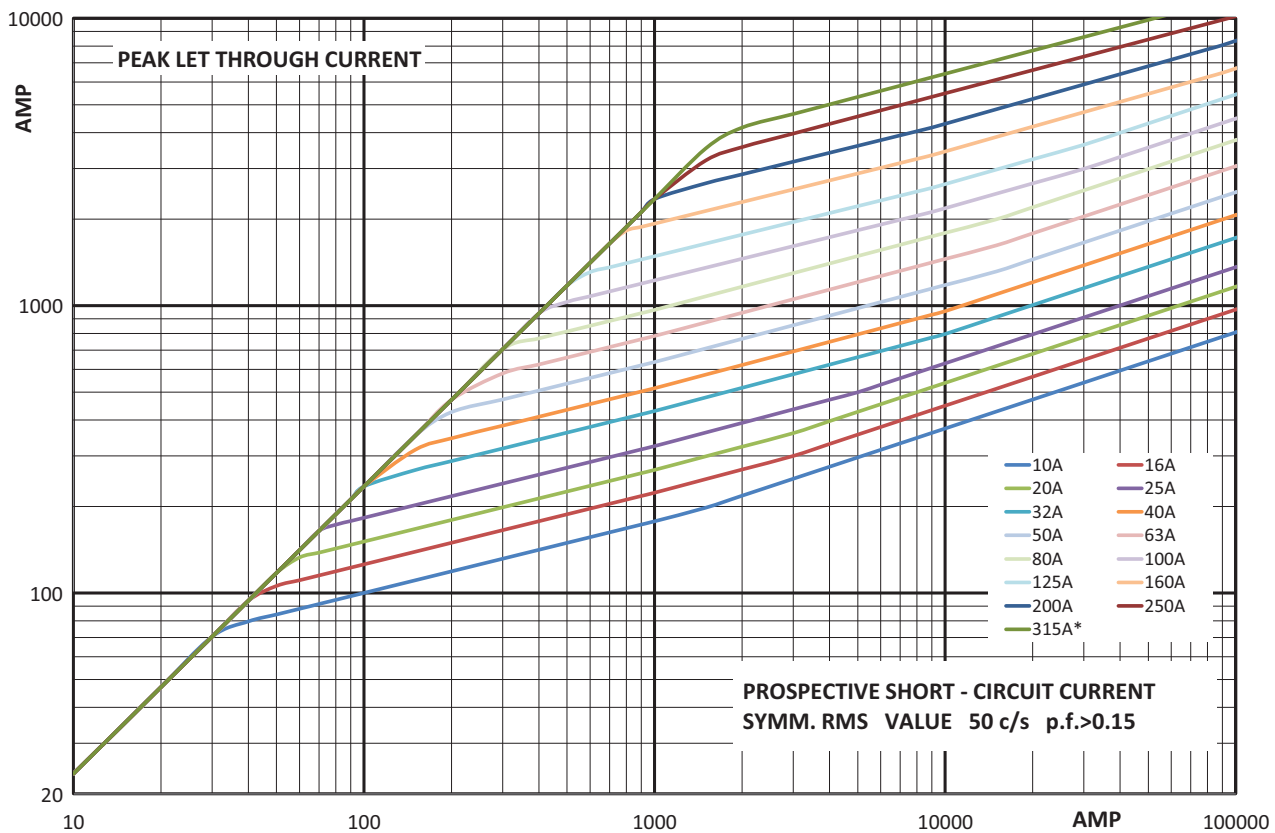
 $K_b = 0.6$ $N = 1.6$

Technical Data 720101

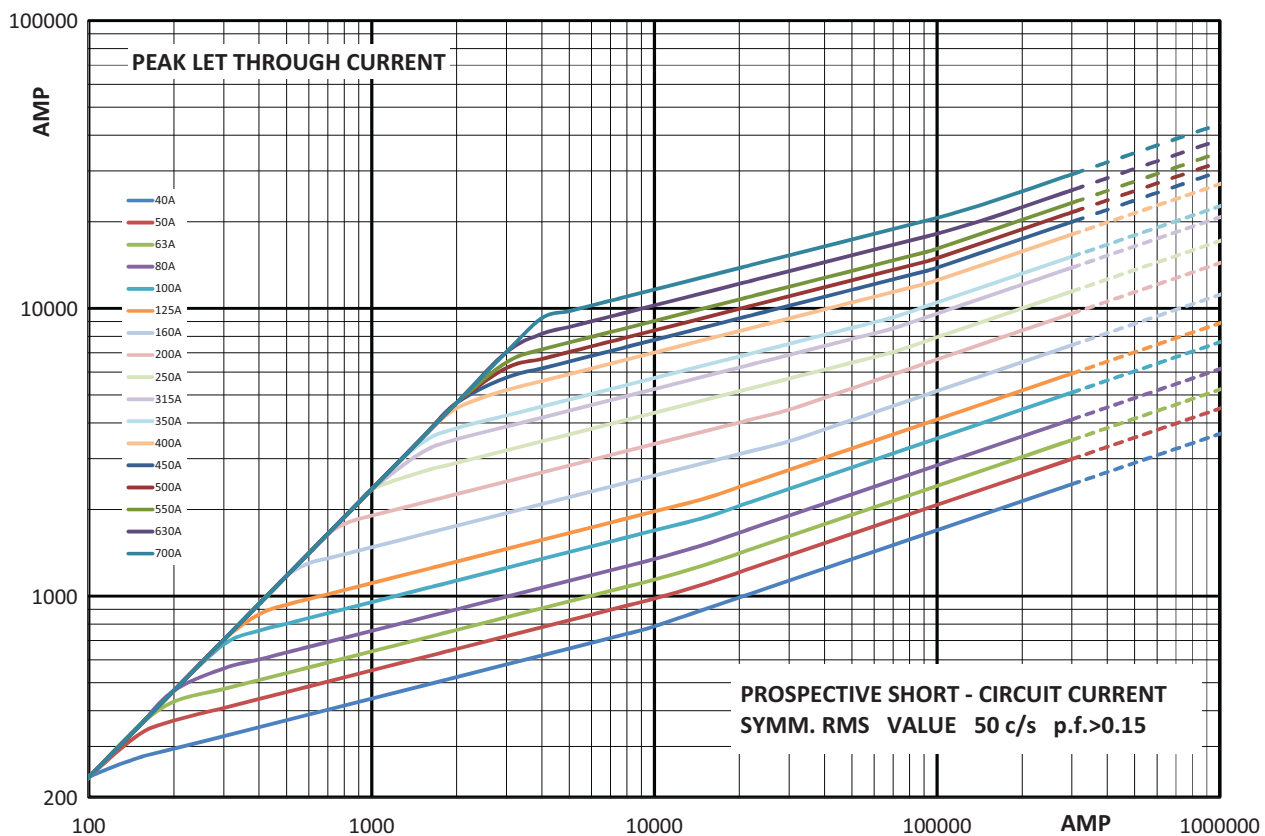
Effective May 2020

DIN 43620 Dual indication fuse links

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



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

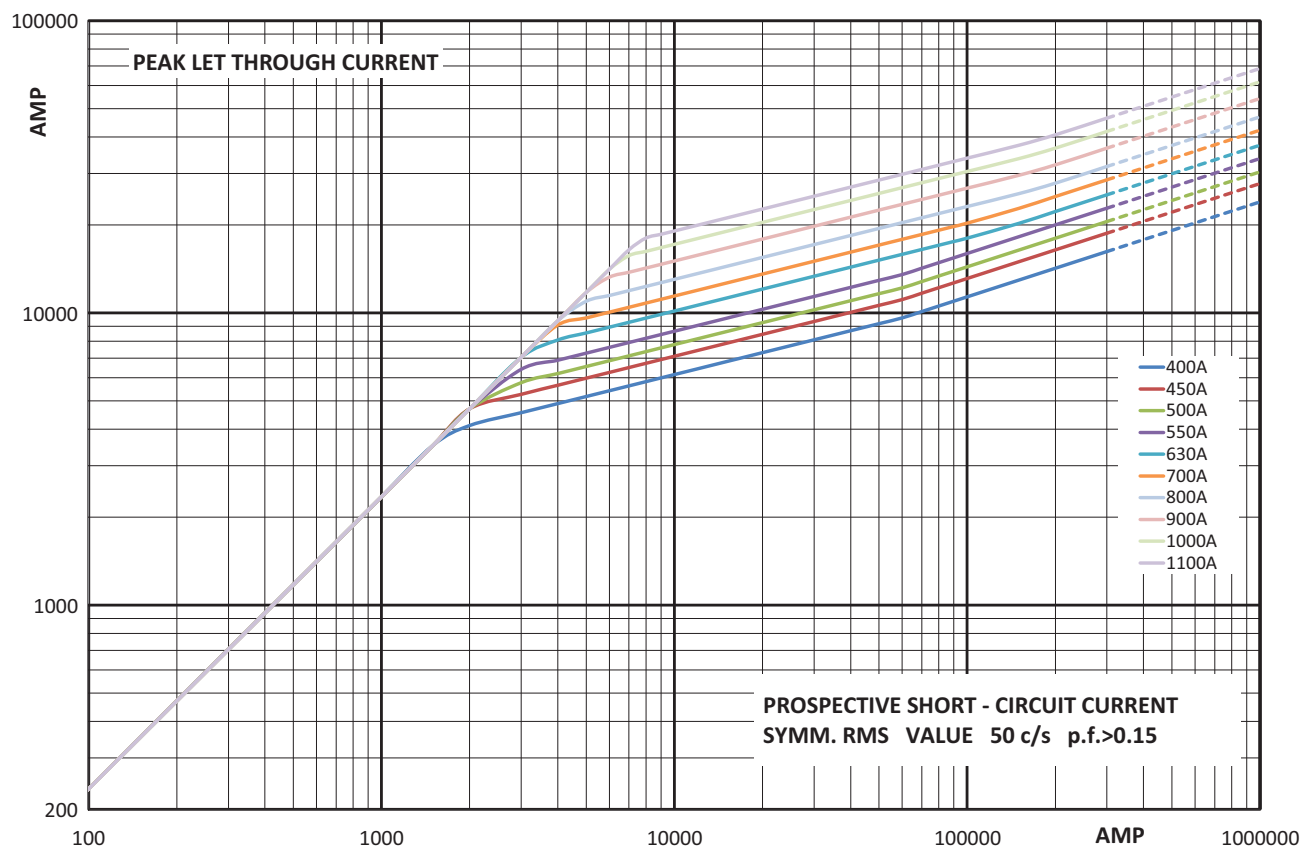


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Technical Data 720101

Effective May 2020

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

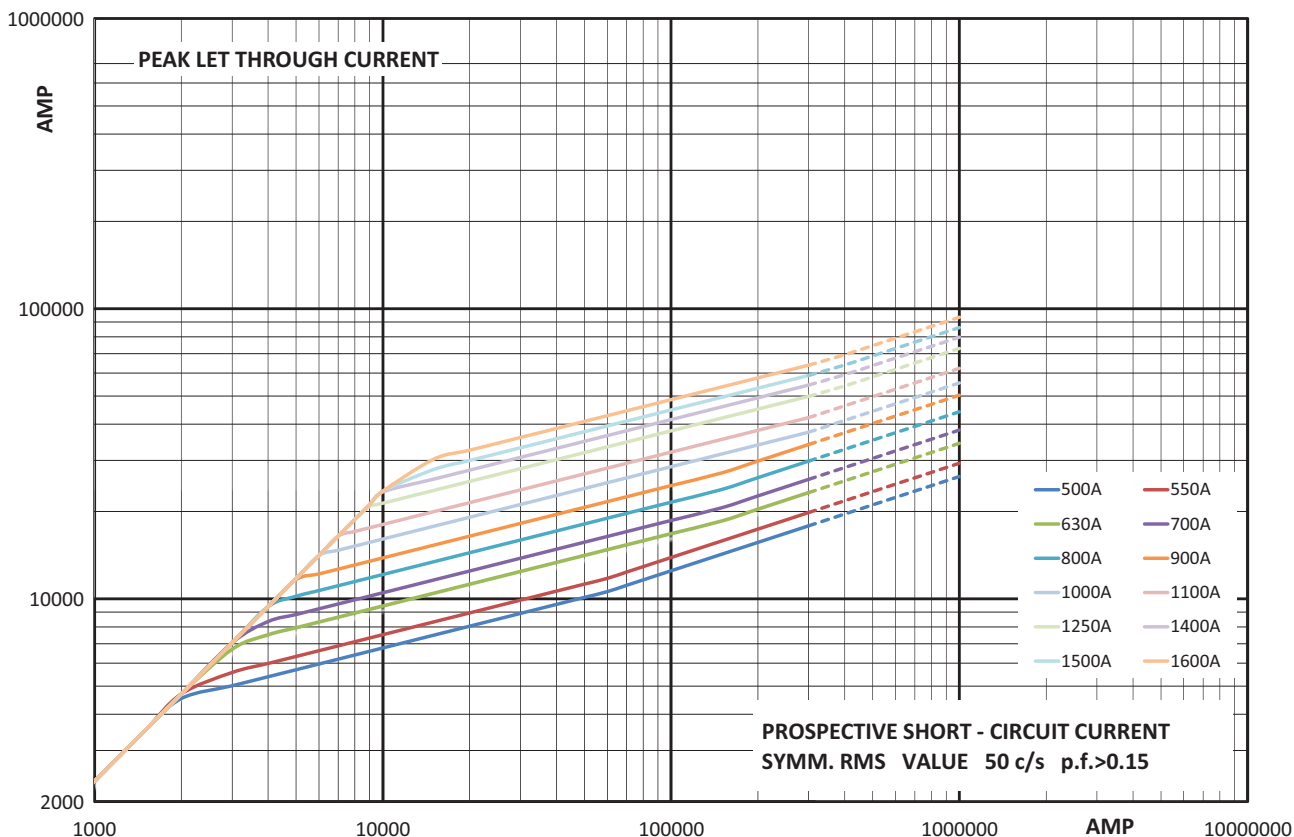


Technical Data 720101

Effective May 2020

DIN 43620 Dual indication fuse links

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



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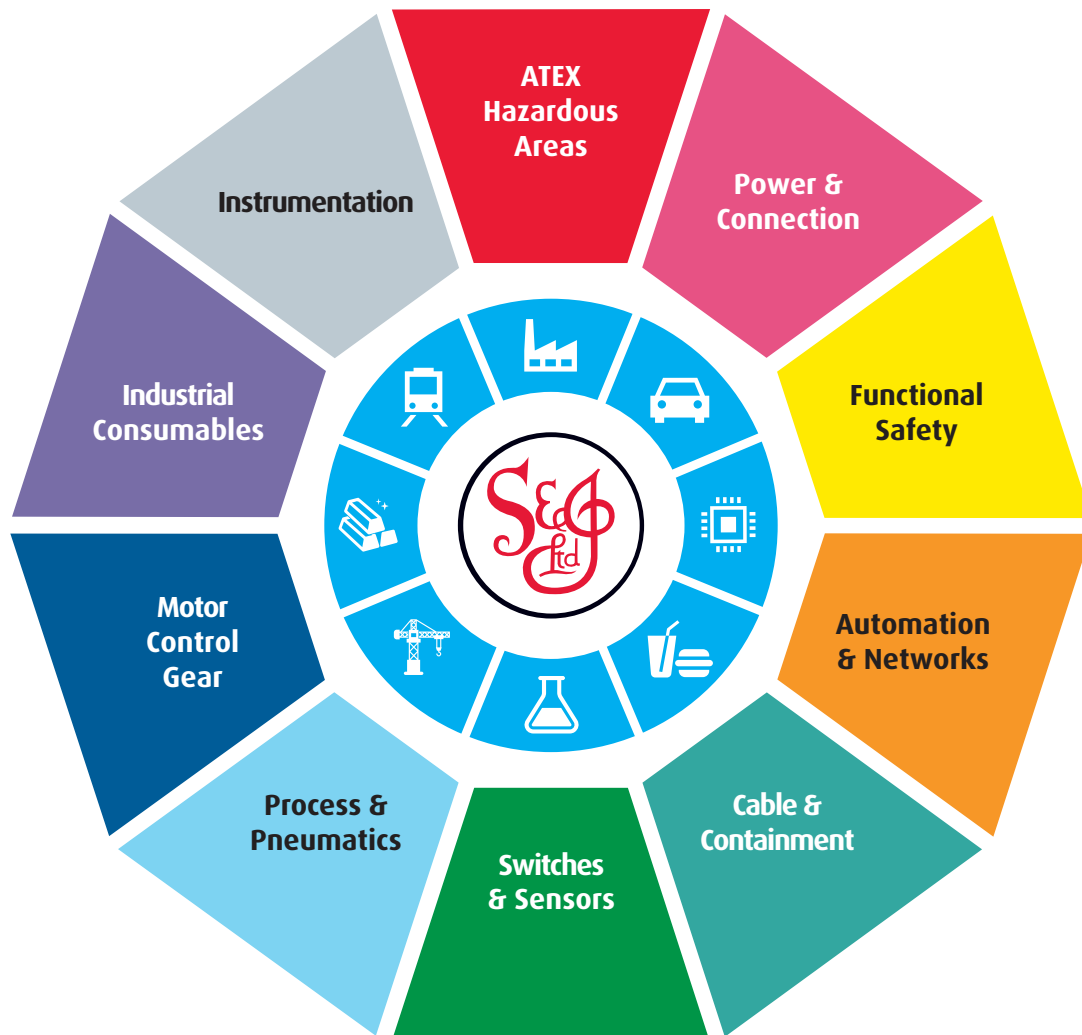
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