Technical Data **TD135021EN**

Effective February 2024

BUSSMANN SERIES

170M Size 4 Flush end fuse links

Product description

Eaton's Bussmann® series 170M Size 4 fuse links are specifically designed for the for the protection of power rectifiers. These fuse links are rated at 1000 V a.c. (IEC and IEC/UL)

Powering Business Worldwide

170M Size 4 Flush end fuse links

Catalogue symbol

- 170M

Fuse size

- 4

Technical data

- Rated voltage: 1000 V a.c. (IEC and IEC/UL)
- Rated current: 1000 A to 3000 A
- Breaking capacity:
  - IEC Certified catalogue numbers 200 kA RMS Sym
  - IEC and UL Certified catalogue numbers: 100 kA RMS Sym
- Operating class: aR

Standards/Approvals

- CE, Designed and tested to IEC 60269 Part 4
- UL catalogue numbers are IEC 60269 Part 4 and UL 248-13 certified

Packaging

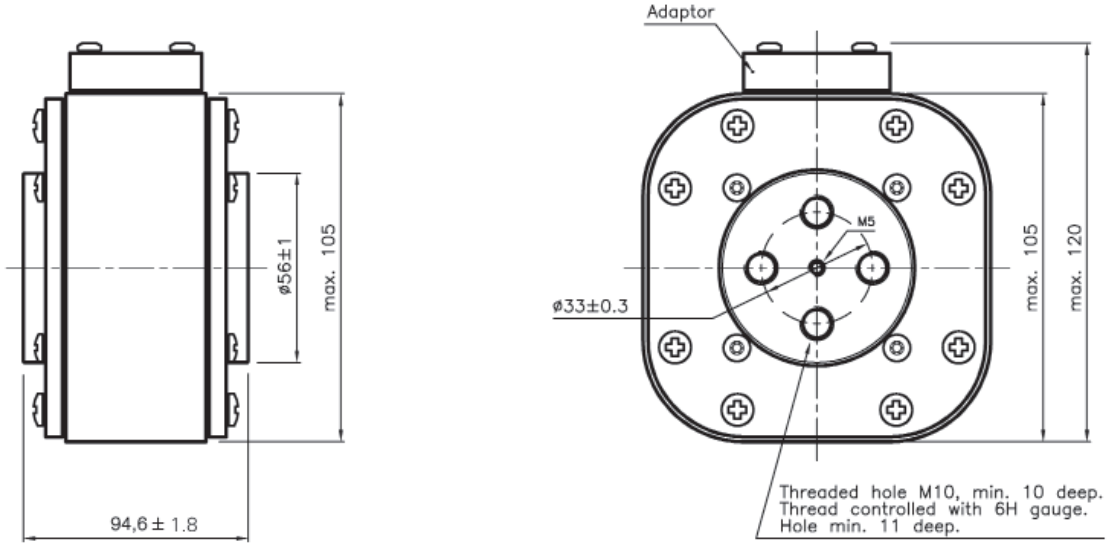
- MOQ: 1

Technical data

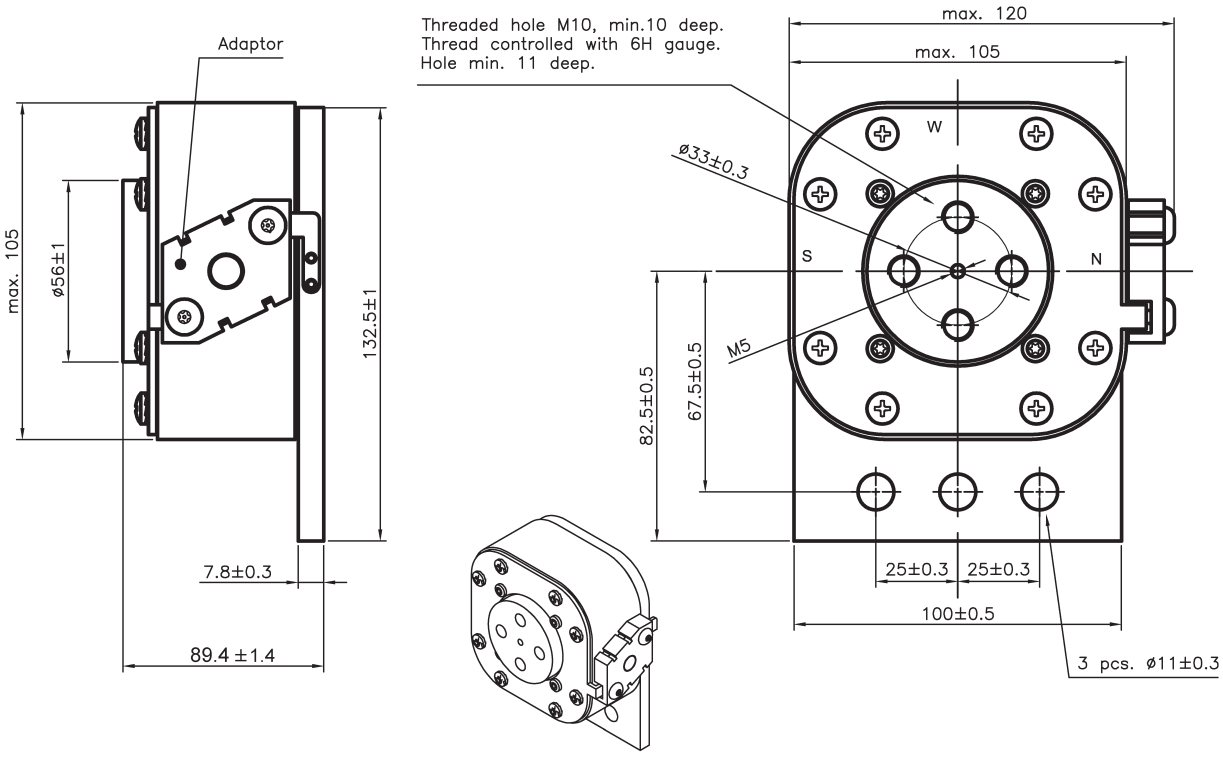
			I^2t (A^2 Sec)			Catalogue numbers			
Fuse link body size	Rated voltage	Rated current (Amps)	Pre-arcing	Clearing at 1000 V a.c.	Watts loss (W)	-BKN/95 Type K indicator with IEC certification only	-BKN/95 Type K indicator with IEC and UL Certification	-SBKN/90 Type K indicator with IEC certification only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

170M Size 4 Flush end fuse links

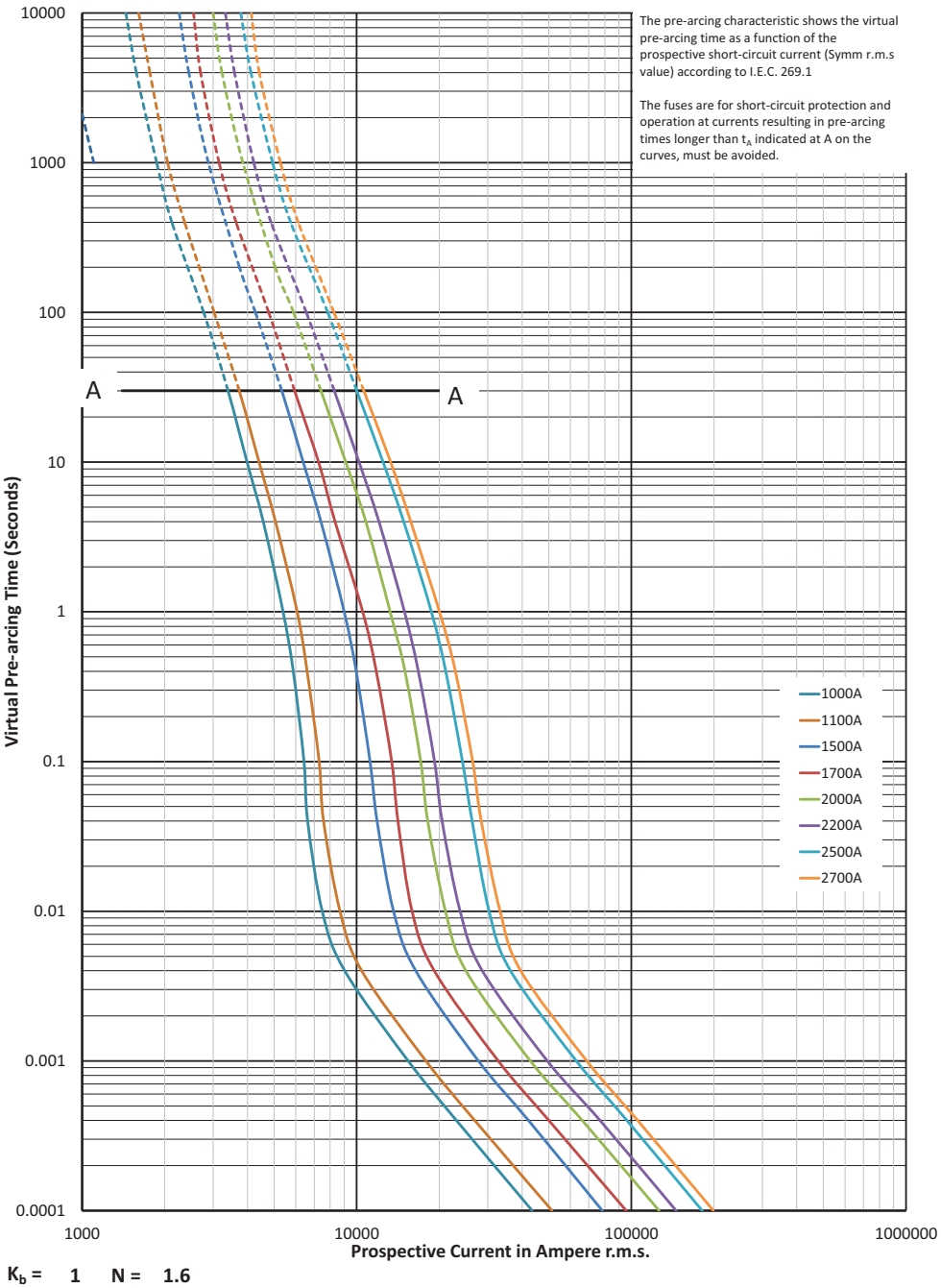
Dimensions (mm) - 4BKN/95



Dimensions (mm) - 4SBKN/90

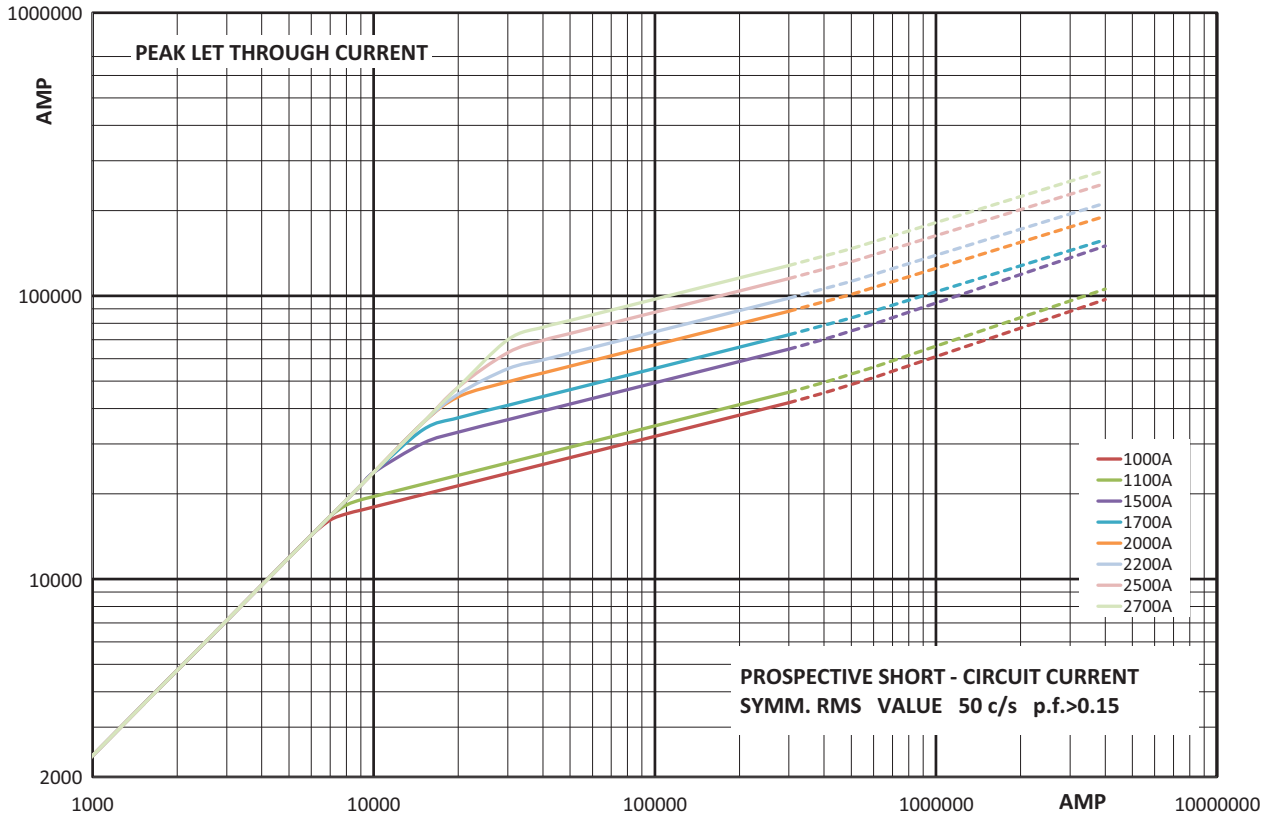


Time-current curve - IEC Certified fuses - 1000 A to 2700 A



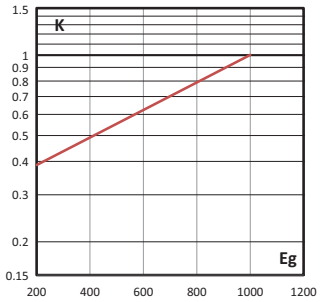
K_b = 1 N = 1.6

Cut-off curve - IEC Certified fuses - 1000 A to 2700 A



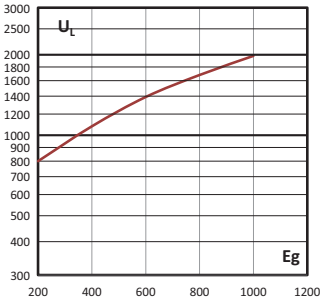
Total clearing I^2t

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).



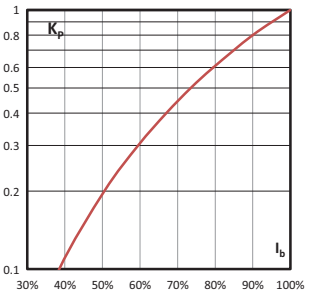
Arc voltage

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.

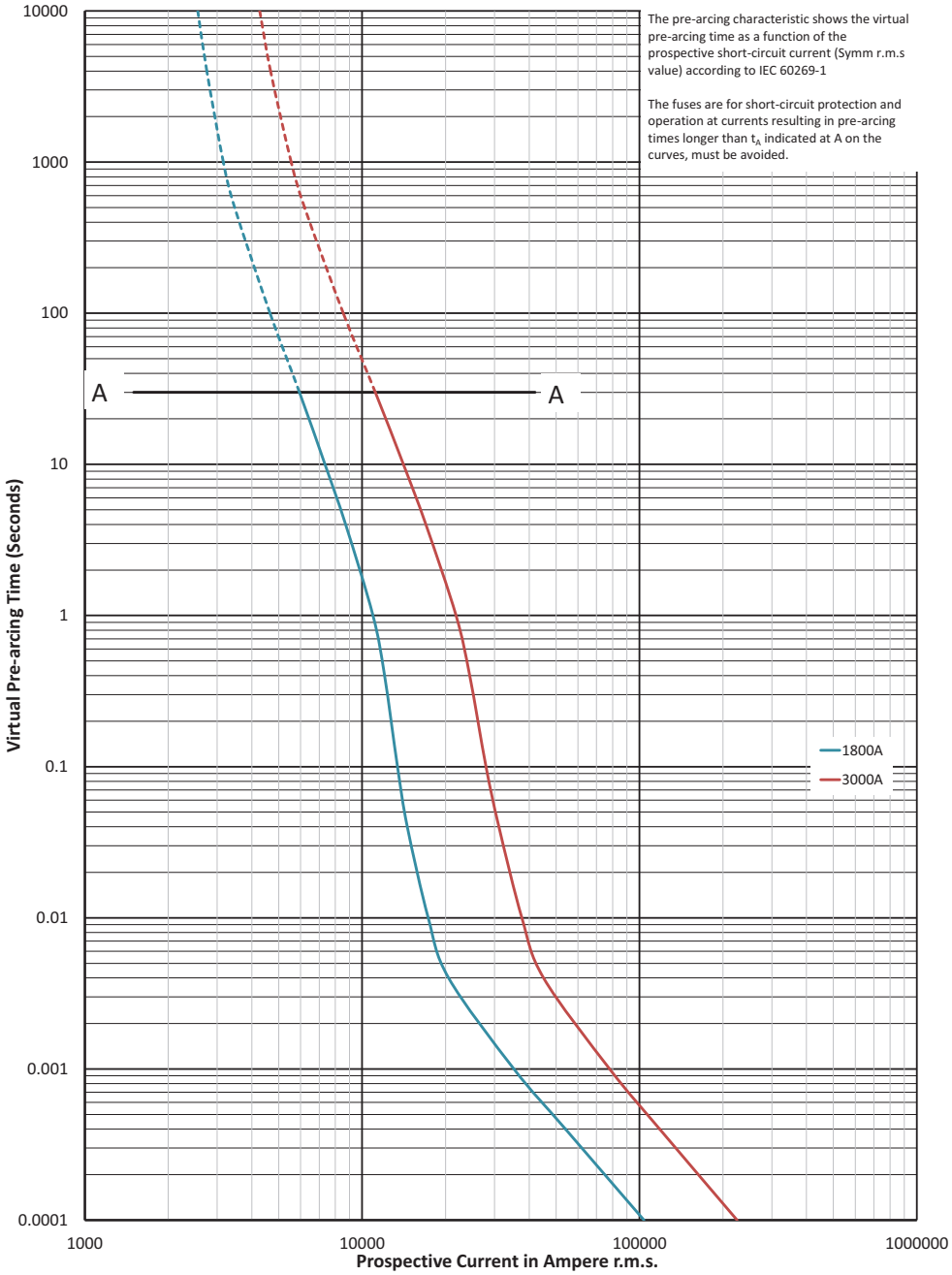


Watts losses

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.



Time-current curve - IEC Certified fuses - 1800 A and 3000 A



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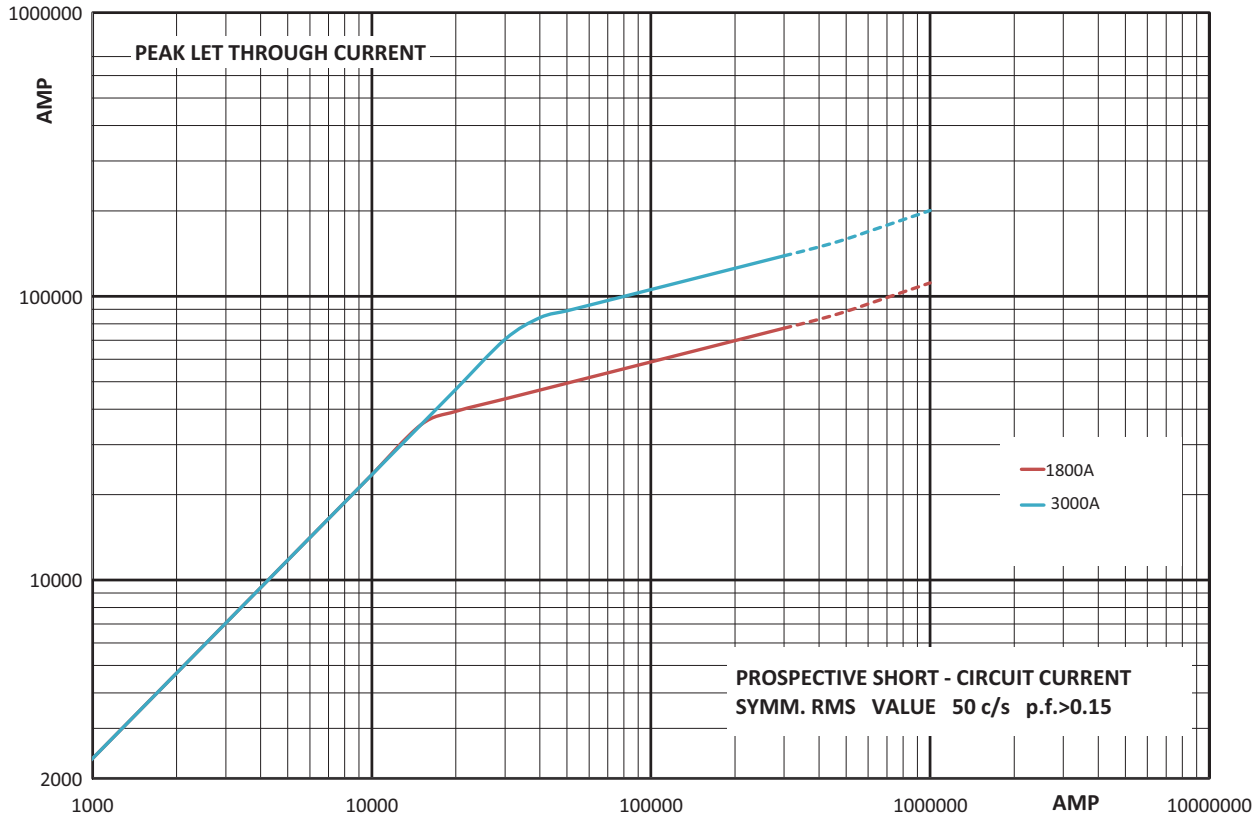

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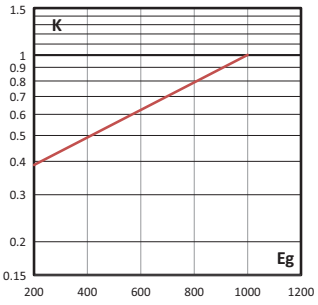

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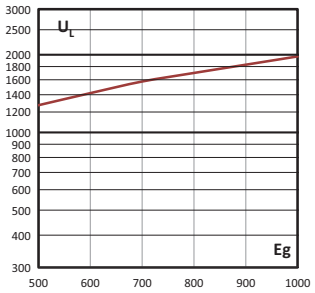

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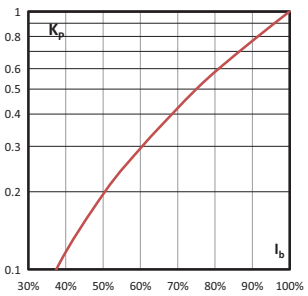
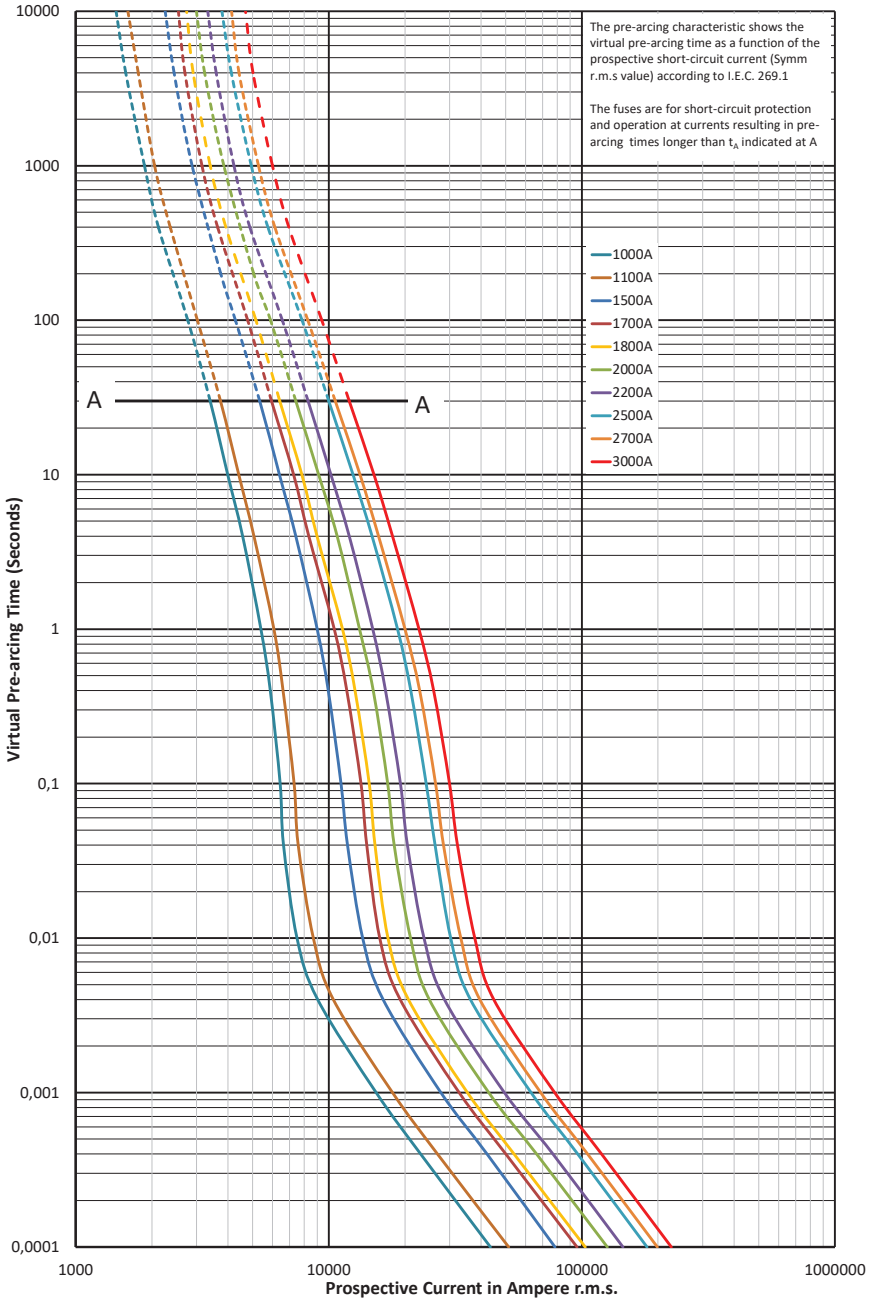


Time-current curve - IEC and UL Certified fuses - 1000 A to 3000 A



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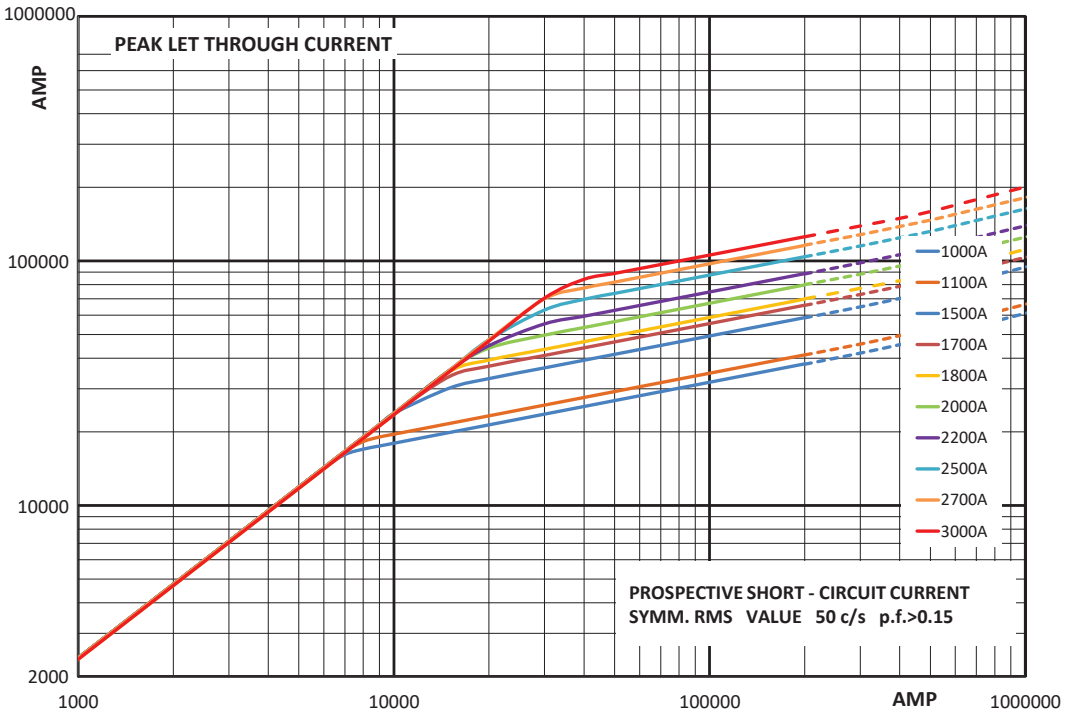
Cut-off curve - IEC and UL Certified fuses - 1000 A to 3000 A



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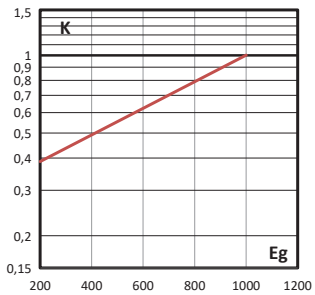

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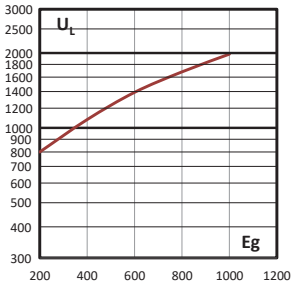

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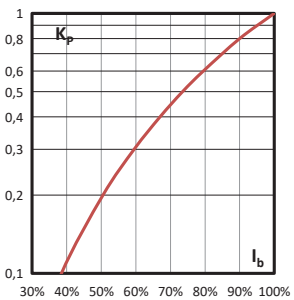

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