

Square Body Flush End Contact Size 4 — 1250V (IEC): 1400-2500A

1250V (IEC) 1400-2500A

Specifications

Description: High speed square body fuses, for the protection of the power rectifier section of the equipment.

Dimensions: See dimensions illustration.

Ratings:

Volts: — 1250Vac (IEC)

Amps: — 1400-2500A

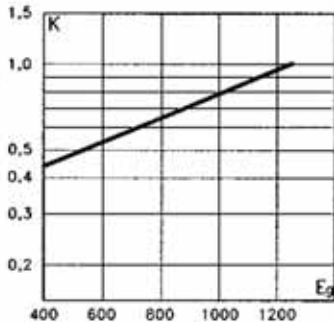
IR: — 125kA RMS Sym.

Agency Information: CE, Designed and tested to IEC 60269: Part 4, UL Recognized.

Electrical Characteristics

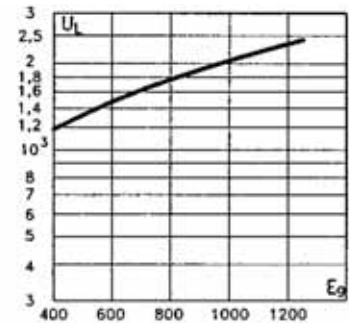
Total clearing I^2t

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 by correction factor, K, given as a function of applied working voltage, E_g , (rms).



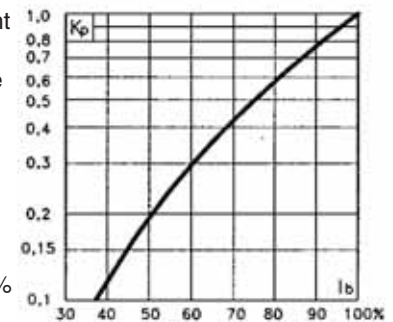
Arc Voltage

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%.



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.



Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I^2t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

For Other Voltage Ratings in This Body Style

- See pages 135 (690V/700V) and 154 (1000V)

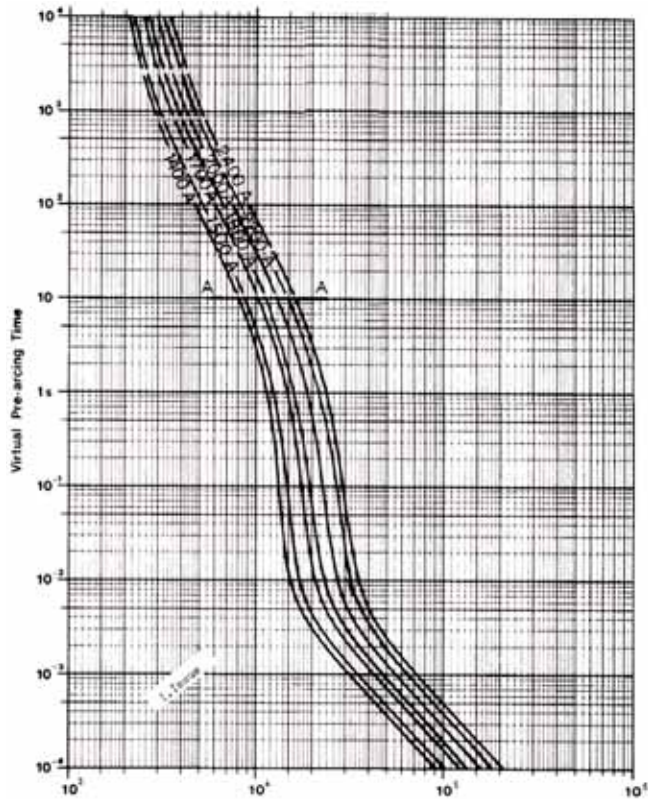
Catalog Numbers

Fuse Size	Catalog Number		Electrical Characteristics				
	-BKN/105 Type K Indicator	-SBKN/105 Type K Indicator	Rated Voltage (V)	Rated Current RMS-Amp	I^2t (A ² Sec)		Watt Loss (W)
					Pre-arc	Clearing at 1250V	
4	170M7217	170M7512	1250	1400	800000	5000000	195
	170M7597	170M7510		1500	1000000	6200000	200
	170M7676	170M7511		1700	1400000	8700000	220
	170M7532	170M7976		1800	1700000	11000000	225
	170M7633	170M7513		2000	2300000	14500000	235
	170M7592	170M7546		2200	3100000	19500000	245
	170M7107	170M7516		2400	4000000	25000000	255
	170M7595	170M7978		2500	4500000	28000000	260

Data Sheet: 170K6640 , 170K6642

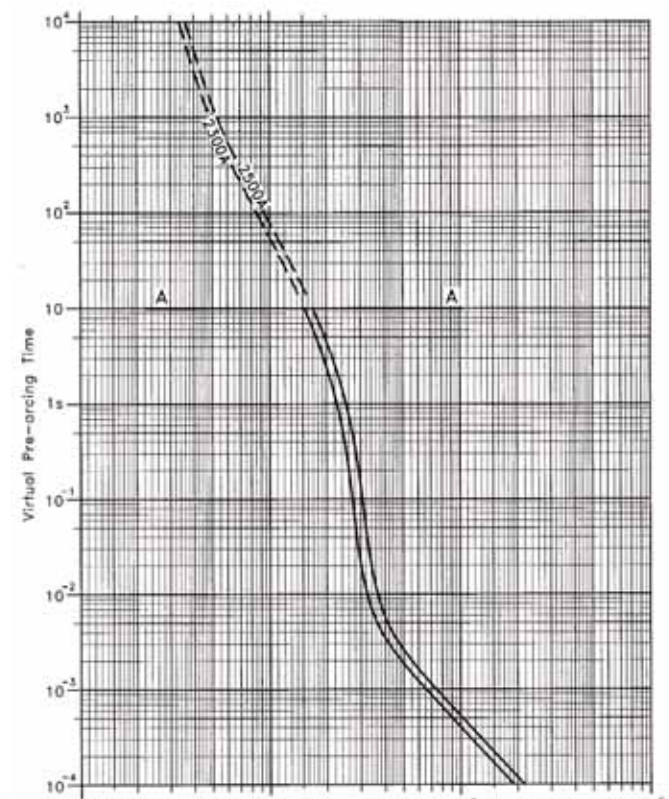
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Size 4 — 1400-2400A: 1250V
Time-Current Curve



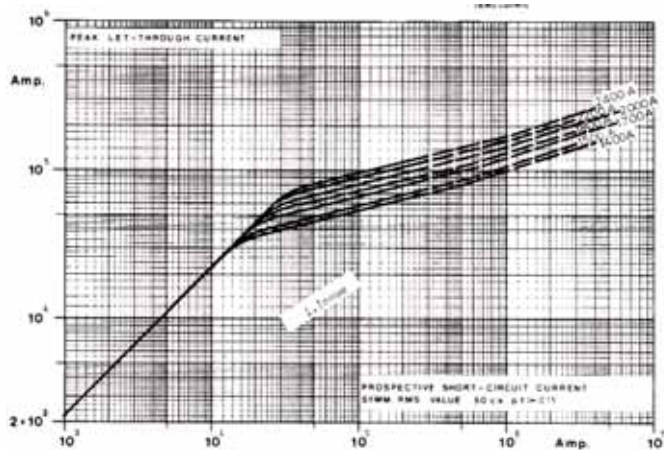
Prospective Current in Amps RMS

Size 4 — 2300-2500A: 1250V
Time-Current Curve



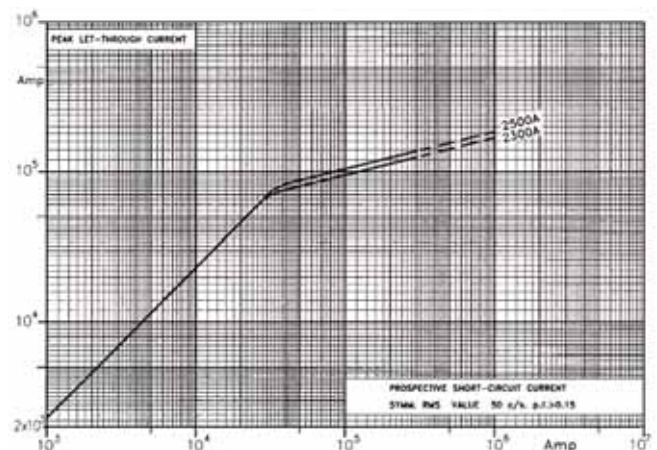
Prospective Current in Amps RMS

Peak Let-Through Curve



Data Sheet: Available upon request

Peak Let-Through Curve



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