

## Square Body Flush End Contact Size 24 — 1000V (IEC): 2000-5000A

### 1000V (IEC) 2000-5000A

#### Specifications

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

**Dimensions:** See dimensions illustration.

#### Ratings:

Volts: — 1000Vac

Amps: — 2000-5000A

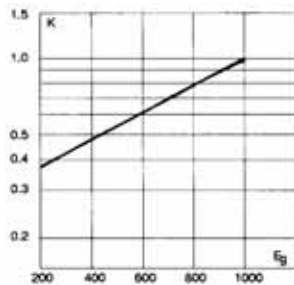
IR: — 300kA RMS Sym.

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

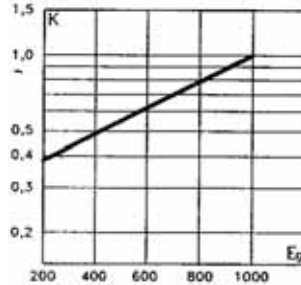


#### Electrical Characteristics

##### Total clearing $I^2t$



2000-3500A



4200-5000A

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).

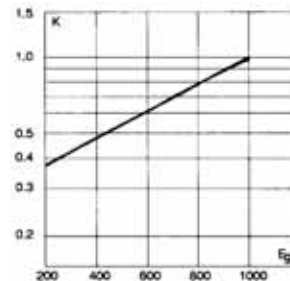
#### Features and Benefits

- Low watts loss
- Superior cycling capability

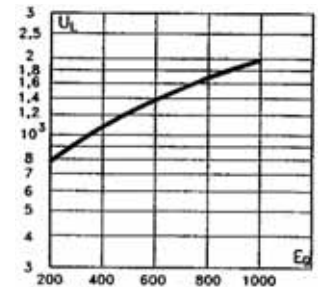
#### Typical Applications

- Power converters/rectifiers
- Reduced voltage starters

#### Arc Voltage



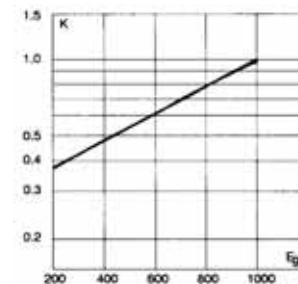
2000-3500A



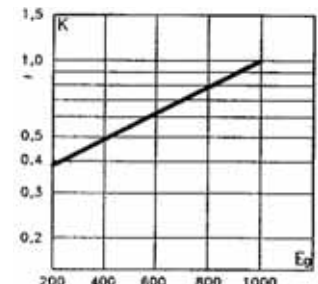
4200-5000A

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



2000-3500A



4200-5000A

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.

#### For Other Voltage Ratings in This Body Style

- See pages 137 (660V) and 171 (1250V)

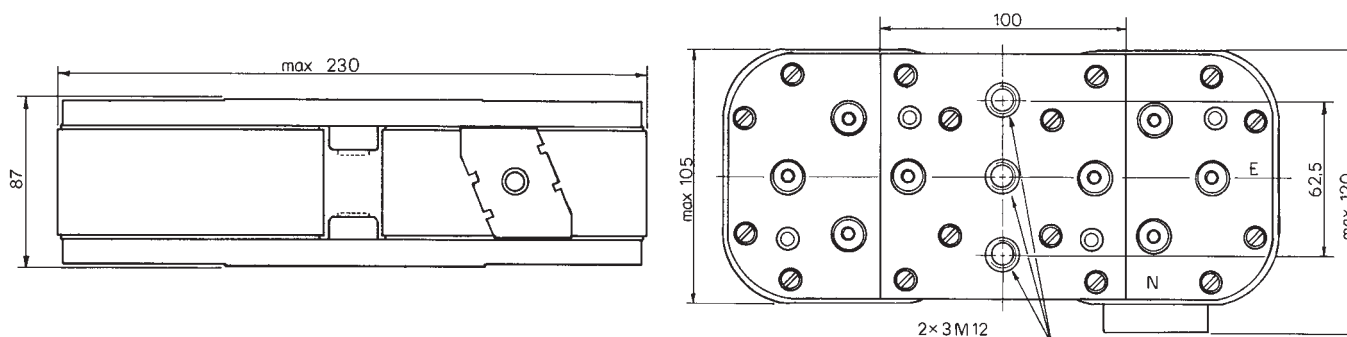
## Square Body Flush End Contact Size 24 — 1000V (IEC): 2000-5000A

### Catalog Numbers

Fuse Size	Cat. Number	Rated Voltage (V)	Rated Current RMS-Amp	Electrical Characteristics		Watt Loss (W)
				$I^2t$ (A <sup>2</sup> Sec)		
				Pre-arc	Clearing at 1000V	
24	170M7608	1000	2000	885000	5700000	345
	170M7680		3000	2900000	19000000	430
	170M7567		3200	3300000	20000000	440
	170M7568		3500	4500000	27000000	450
	170M7569		4000	6800000	40000000	475
	170M7498		4200	8000000	47500000	485
	170M7488		4500	10000000	59000000	495
	170M7622		5000	14000000	82500000	540

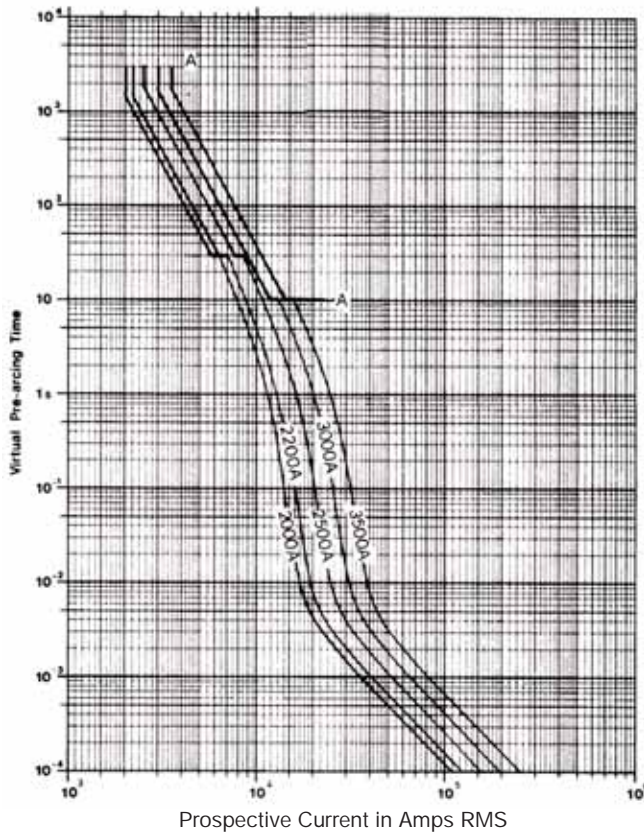
Data Sheet: 170K7540, 170K8514

### Dimensions (mm):

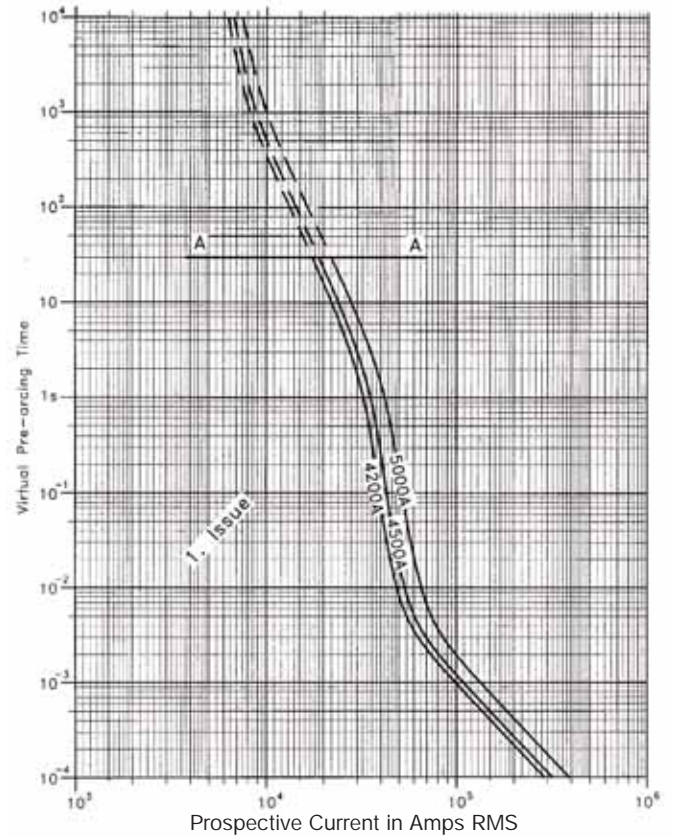


## Square Body Flush End Contact Size 24 — 1000V (IEC): 2000-5000A

Size 24 — 2000-3500A: 1000V  
Time-Current Curve

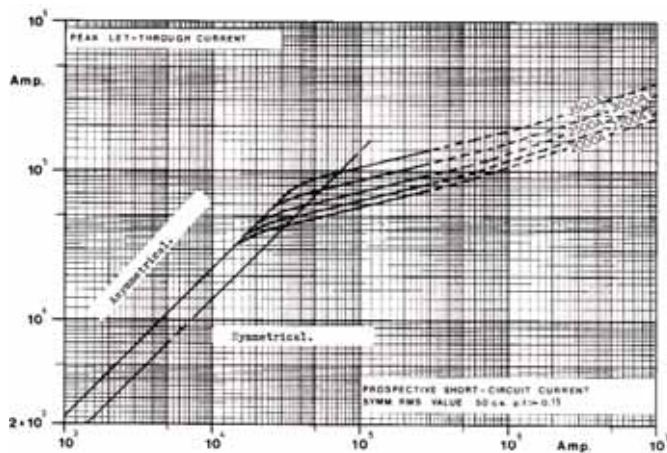


Size 24 — 4200-5000A: 1000V  
Time-Current Curve

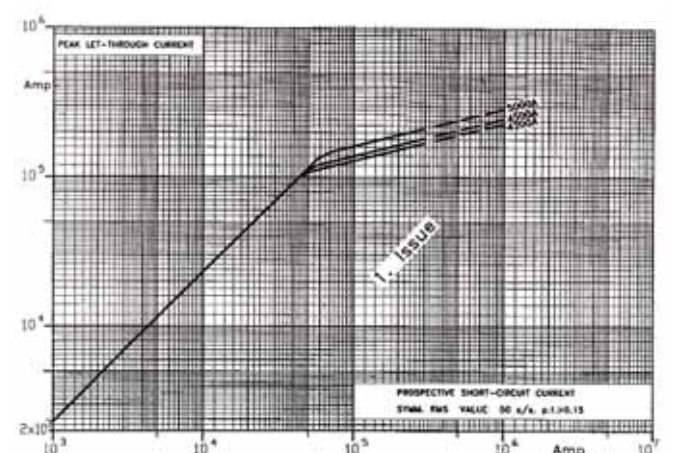


High Speed Fuses

Peak Let-Through Curve



Peak Let-Through Curve



Data Sheet: Available upon request

Data Sheet: Available upon request