

## Square Body DIN 43 620 — 690V (IEC/UL): 10-315A

### 690V (IEC/UL) 10-315A

#### Specifications

**Description:** Square body DIN 43 620 blade style high speed fuses.

**Dimensions:** See dimensions illustration.

#### Ratings:

Volts: — 690Vac

Amps: — 10-315A

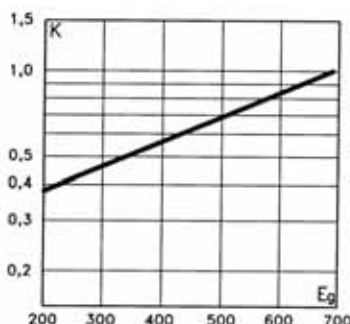
IR: — 200kA RMS Sym.

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

#### Electrical Characteristics

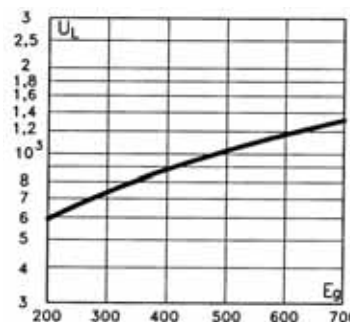
##### Total Clearing $I^2t$

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).



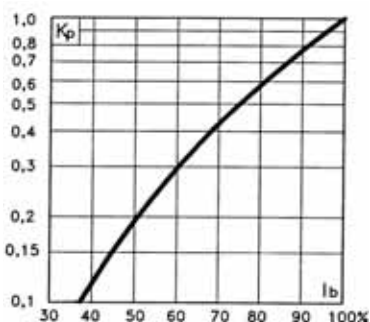
#### Arc Voltage

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

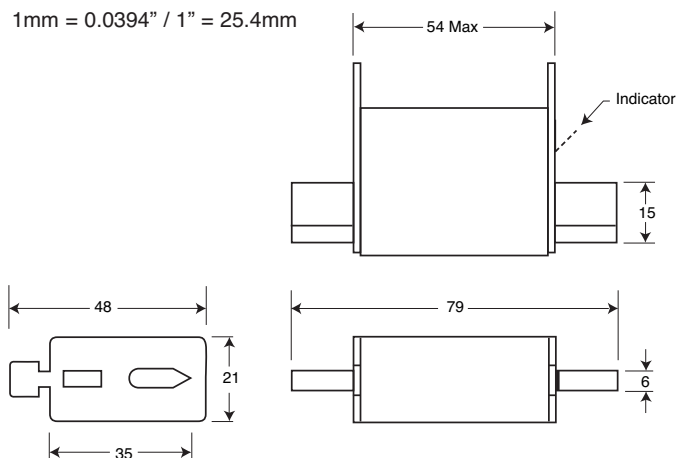
#### Typical Applications

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

#### Dimensions (mm)

DIN 000 Type T

1mm = 0.0394" / 1" = 25.4mm



## Square Body DIN 43 620 — 690V (IEC/UL): 10-315A

### Catalog Numbers

Catalog Numbers DIN Type T Indicator for Micro	Size	Electrical Characteristics			
		Rated Current RMS-Amps	I <sup>2</sup> t (A <sup>2</sup> Sec)		Watts Loss
			Pre-arc	Clearing at 660V	
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	16500	25
170M1570D		200	4350	31000	29.5
170M1571D		250	7900	56000	35.5
170M1572D	00	315	12000	84500	45

• Watts loss provided at rated current.

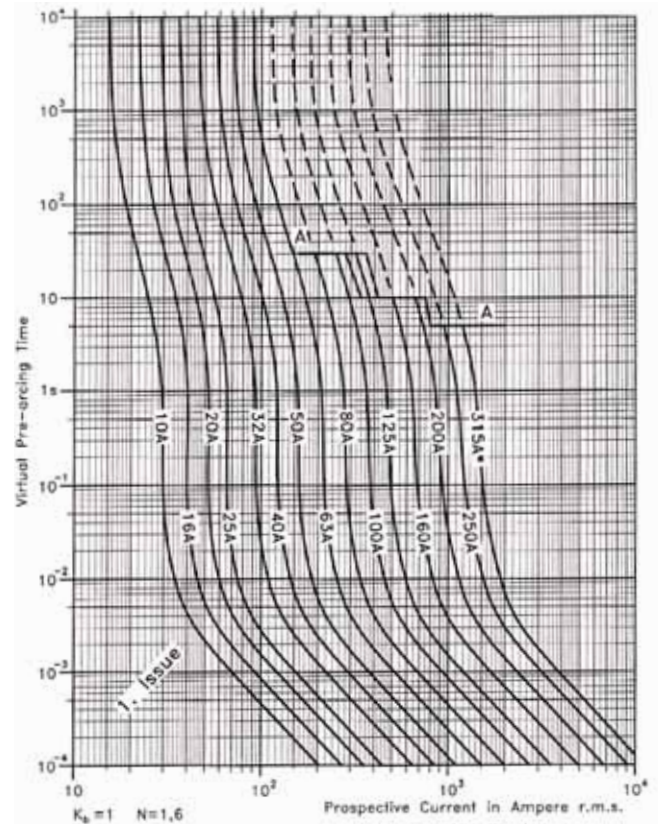
• Microswitch indicator ordered separately. See accessories on pages 185-186.

### Rated Current

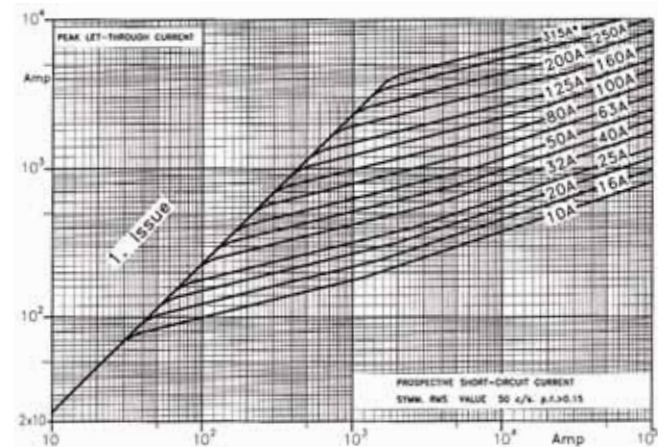
The rated current of this fuse range has been given with copper conductors that have a current density of 1.3 A/mm<sup>2</sup> (IEC 60269-4). For conductor cross section according to IEC 60269-1, the fuses with a rated current higher than 125A must be derated. Please contact Cooper Bussmann for application assistance.

### Size 000 — 10-315A: 690V

#### Time-Current Curve



#### Peak Let-Through Curve



Data Sheet: 72056310