

## British BS 88 — 240V: 6-900A

### LCT, LET, LMT, LMMT

#### Specifications

**Description:** BS 88 style stud-mount fuses.

**Dimensions:** See dimensions illustrations.

#### Ratings:

Volts: — 240Vac/150Vdc

Amps: — 6-900A

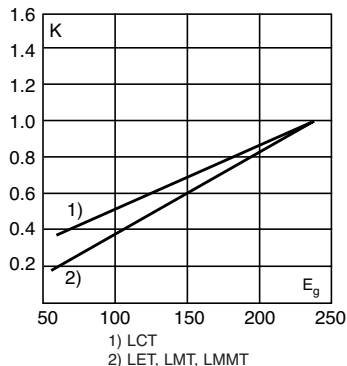
IR: — 200kA RMS Sym.

**Agency Information:** CE, Designed and tested to: BS 88 Part 4, IEC 269 Part 4, UL Recognized. All fuses above have been tested at 318Vac. Consult Cooper Bussmann for specific UL Recognition status.

#### Electrical Characteristics

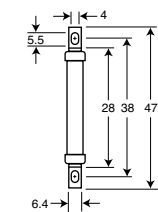
##### Total Clearing $I^2t$

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).



#### Dimensions (mm)

Fig. 1: LCT



1mm = 0.0394" / 1" = 25.4mm

Fig. 2: LET

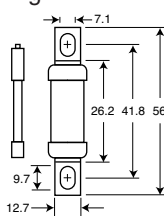
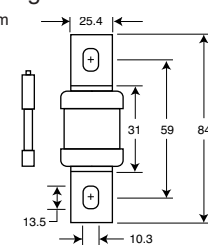
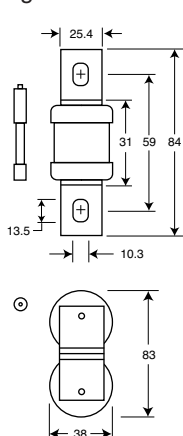


Fig. 3: LMT



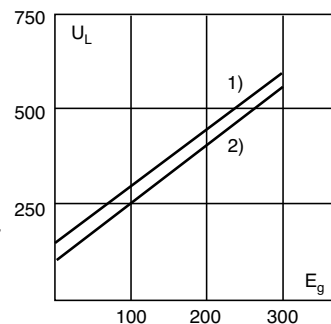
Indicator (Optional)

Fig. 4: LMMT



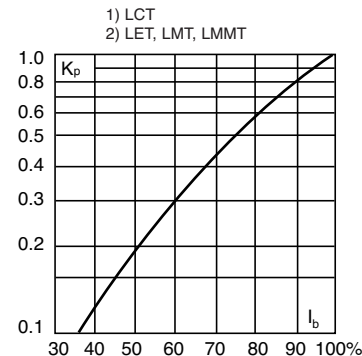
#### Arc Voltage

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.



#### Catalog Numbers

##### Electrical Characteristics

| Catalog Numbers | Type | Rated Current RMS-Amps | $Pt$ (A <sup>2</sup> Sec) |                  |                  | Watts Loss |
|-----------------|------|------------------------|---------------------------|------------------|------------------|------------|
|                 |      |                        | Pre-arc                   | Clearing at 120V | Clearing at 240V |            |
| 6LCT            | LCT  | 6                      | 2                         | 6                | 9                | 1.0        |
| 10LCT           |      | 10                     | 3.8                       | 12               | 22               | 2.5        |
| 12LCT           |      | 12                     | 7                         | 22               | 32               | 2.5        |
| 16LCT           |      | 16                     | 20                        | 50               | 100              | 2.5        |
| 20LCT           |      | 20                     | 25                        | 80               | 160              | 4.0        |
| 25LET           | LET  | 25                     | 18                        | 120              | 250              | 4.0        |
| 32LET           |      | 32                     | 32                        | 200              | 450              | 5.0        |
| 35LET           |      | 35                     | 50                        | 320              | 600              | 5.0        |
| 50LET           |      | 50                     | 100                       | 500              | 1400             | 7.0        |
| 63LET           |      | 63                     | 180                       | 1100             | 2200             | 9.0        |
| 80LET           |      | 80                     | 300                       | 1900             | 3800             | 10.0       |
| 100LET          |      | 100                    | 600                       | 3800             | 7500             | 10.0       |
| 125LET          |      | 125                    | 600                       | 3800             | 7500             | 16.0       |
| 160LET          |      | 160                    | 1100                      | 7000             | 16000            | 20.0       |
| 180LETa         |      | 180                    | 1600                      | 12000            | 29000            | 21.0       |
| 160LMT          | LMT  | 160                    | 1100                      | 7000             | 16000            | 17.0       |
| 200LMT          |      | 200                    | 1500                      | 10000            | 20000            | 28.0       |
| 250LMT          |      | 250                    | 3200                      | 20000            | 40000            | 28.0       |
| 315LMT          |      | 315                    | 6000                      | 35000            | 75000            | 35.0       |
| 355LMT          |      | 355                    | 8000                      | 50000            | 100000           | 35.0       |
| 400LMT          |      | 400                    | 14000                     | 70000            | 160000           | 40.0       |
| 450LMT          |      | 450                    | 18000                     | 100000           | 220000           | 42.0       |
| 400LMMT         | LMMT | 400                    | 6000                      | 35000            | 80000            | 60.0       |
| 500LMMT         |      | 500                    | 14000                     | 80000            | 170000           | 64.0       |
| 630LMMT         |      | 630                    | 24000                     | 150000           | 300000           | 75.0       |
| 710LMMT         |      | 710                    | 32000                     | 200000           | 460000           | 77.0       |
| 800LMMT         |      | 800                    | 52000                     | 300000           | 600000           | 82.0       |
| 900LMMT         |      | 900                    | 75000                     | 400000           | 800000           | 97.0       |

• Watts loss provided at rated current.

• Note: 7LET, 10LET, 12LET and 16LET are available for replacement purposes on existing equipment.

• See accessories on page 195.

#### Features and Benefits

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

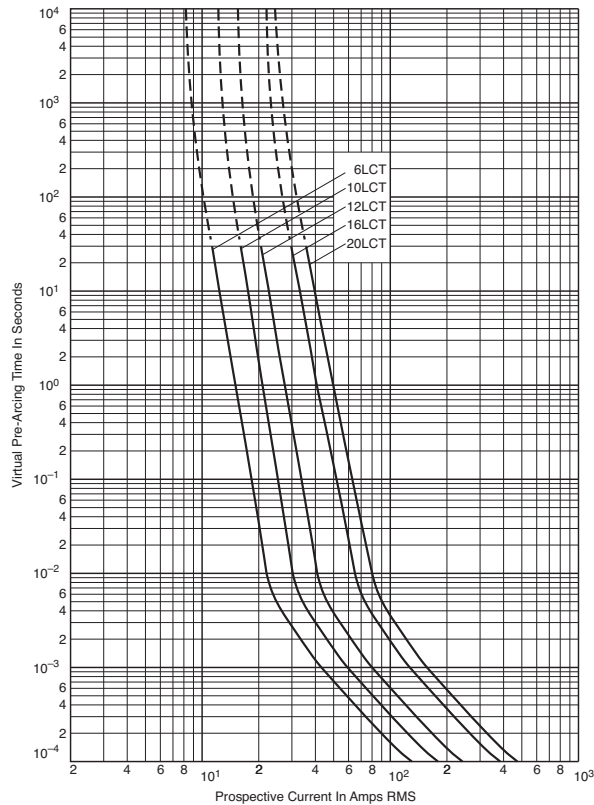
#### Typical Applications

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

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### LCT 6-20A: 240V

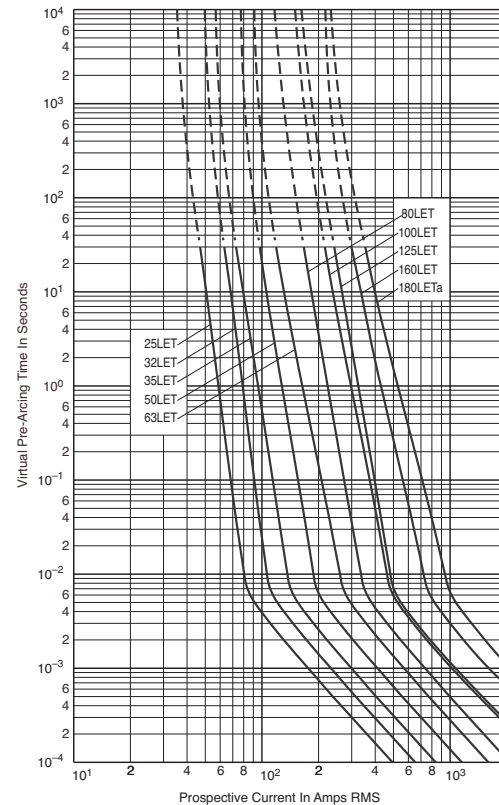
Time-Current Curve



Data Sheet: 35785296

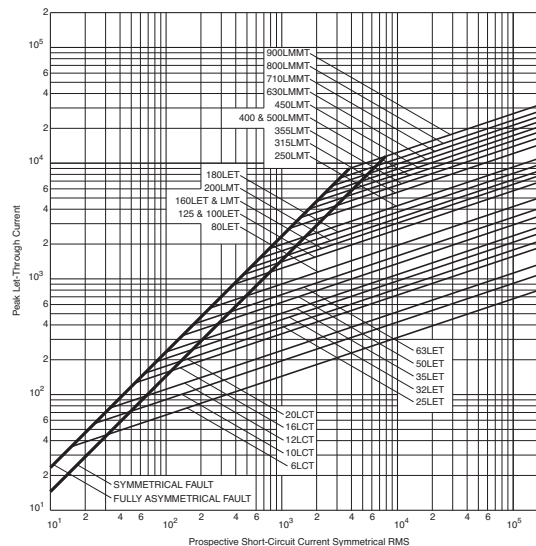
### LET 25-180A: 240V

Time-Current Curve



Data Sheet: 35785293

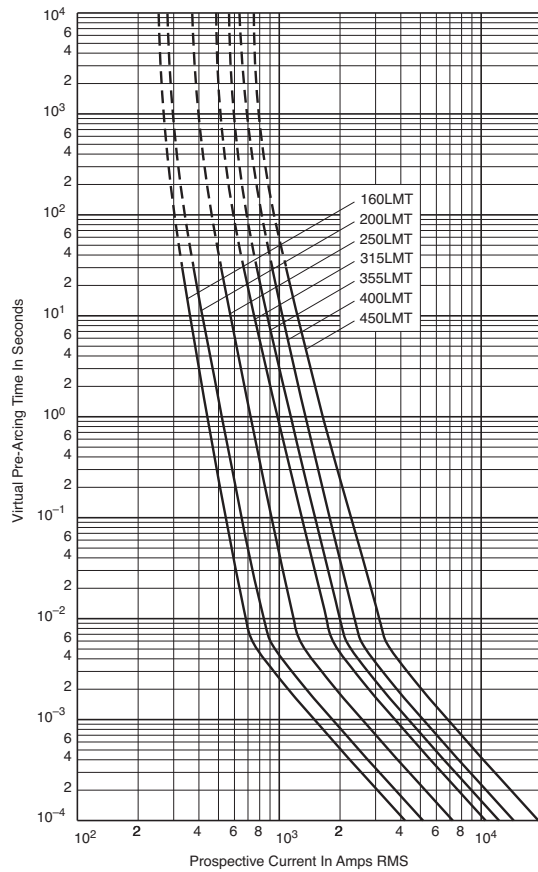
### Peak Let-Through Curve



## British BS 88 — 240V: 6-900A

### LMT 160-450A: 240V

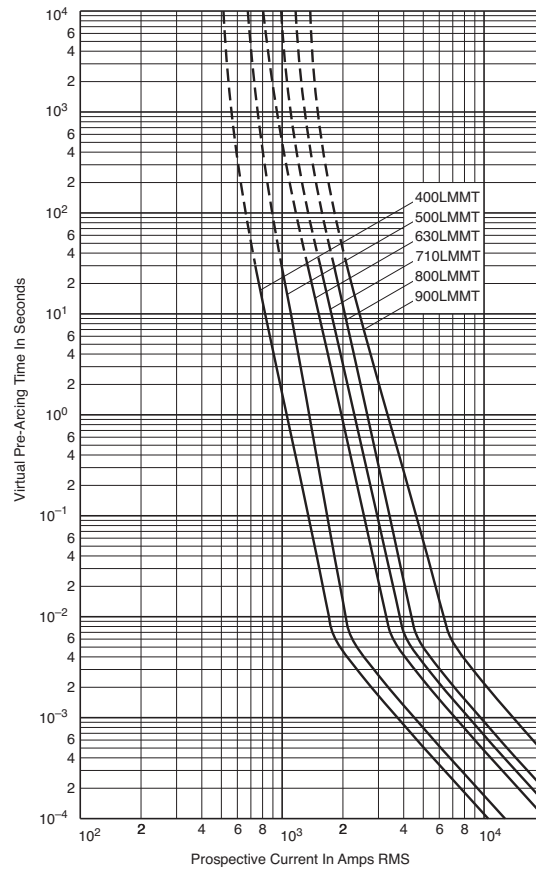
Time-Current Curve



Data Sheet: 35785294

### LMMT 400-900A: 240V

Time-Current Curve



Data Sheet: 35785295

### Peak Let-Through Curve

