High Speed Fuses • British BS 88 • 240V: 6-900A

LCT, LET, LMT, LMMT

Specifications

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

Dimensions: **See Dimensions illustrations in the documentation below**

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.**

400LMMT

All fuses above have been tested at 318Vac.
Consult our sales office for specific UL Recognition status.

Features and Benefits
- Excellent cycling capability
- Excellent dc performance
- Low arc voltage and low energy let-through (I^2t)

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

Catalog Numbers
Electrical Characteristics

Catalog Numbers	Type	Rated Current RMS-Amps	I^2t (A^2 Sec) Pre-arc	Clearing at 120V	Clearing at 240V	Watts Loss
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.

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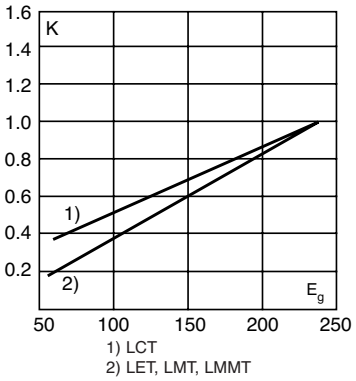
Electrical Characteristics

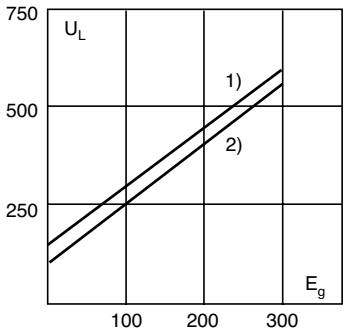
Total Clearing I²t

The total clearing I²t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I²t 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%.



1) LCT
2) LET, LMT, LMMT

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.

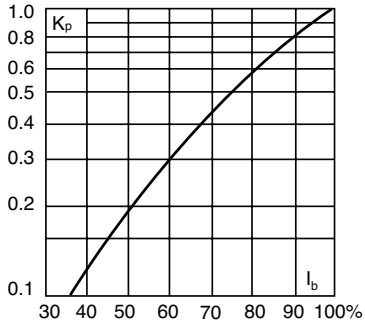


Fig. 1: LCT

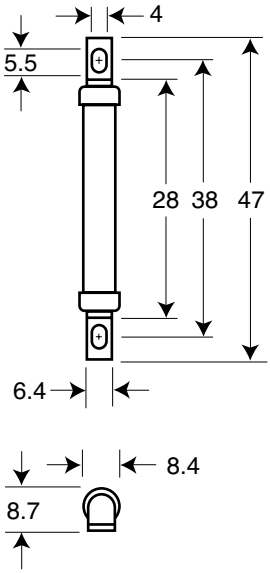


Fig. 2: LET

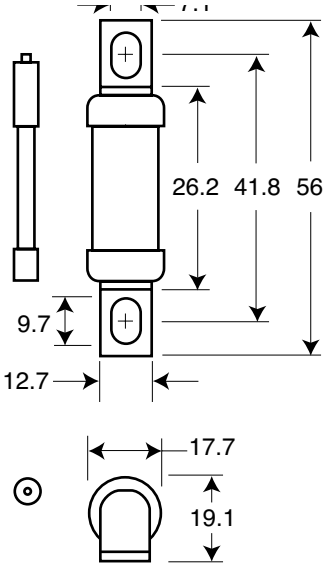
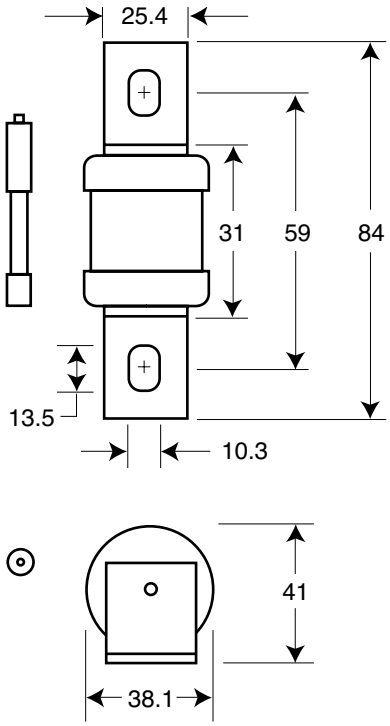
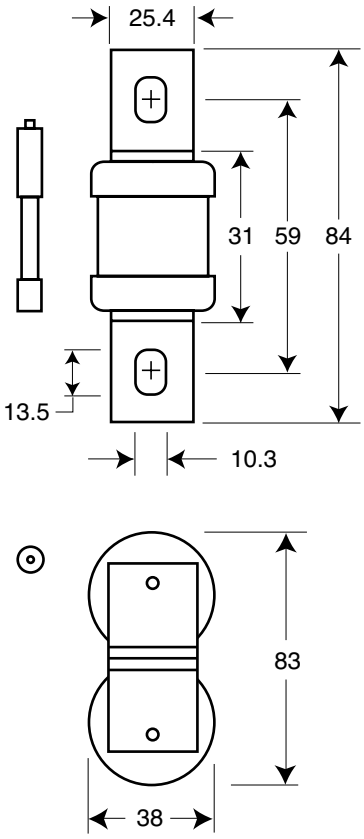


Fig. 3: LMT



Indicator (Optional)

Fig. 4: LMMT



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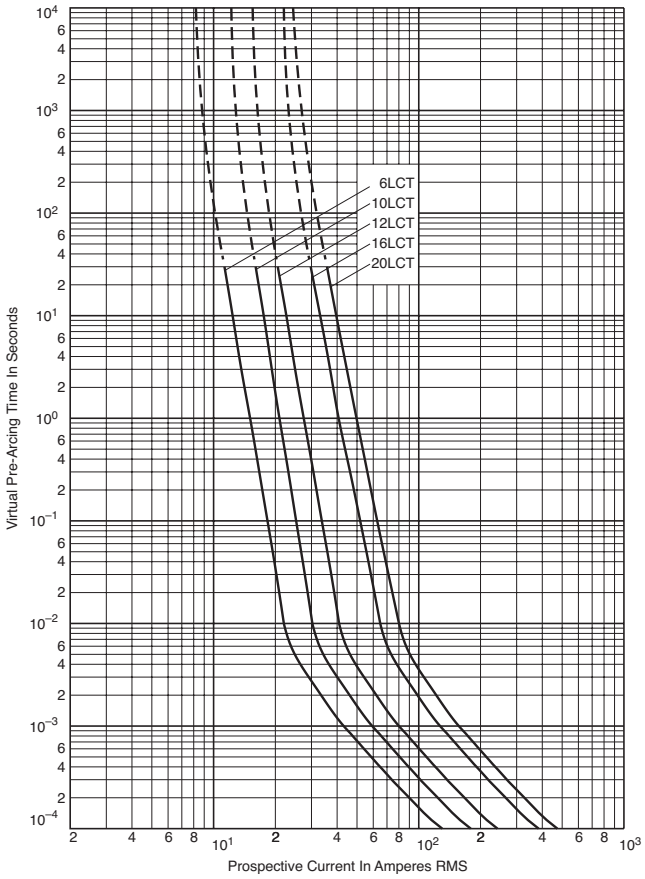
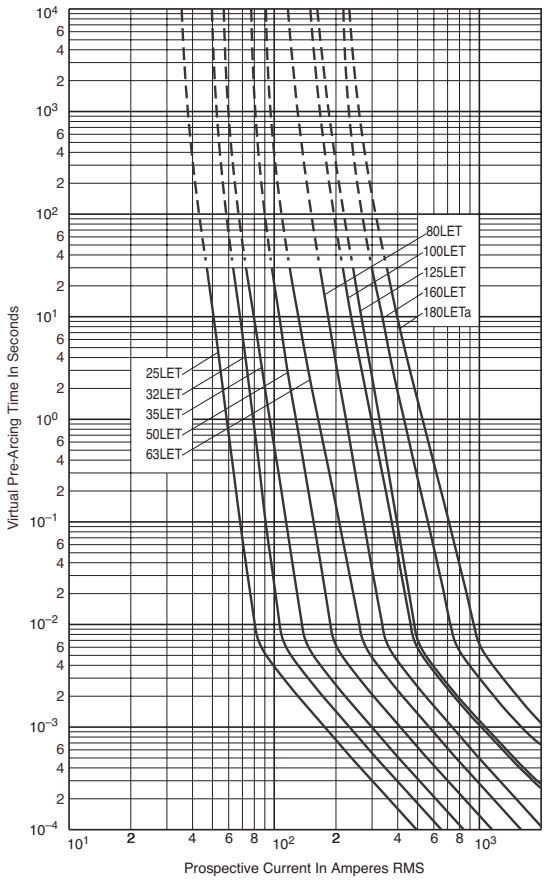
LCT 6-20A: 240V

Time-Current Curve

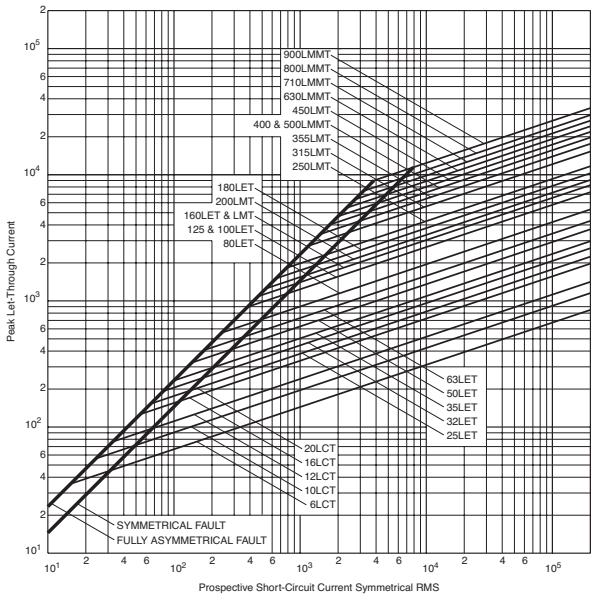


LET 25-180A: 240V

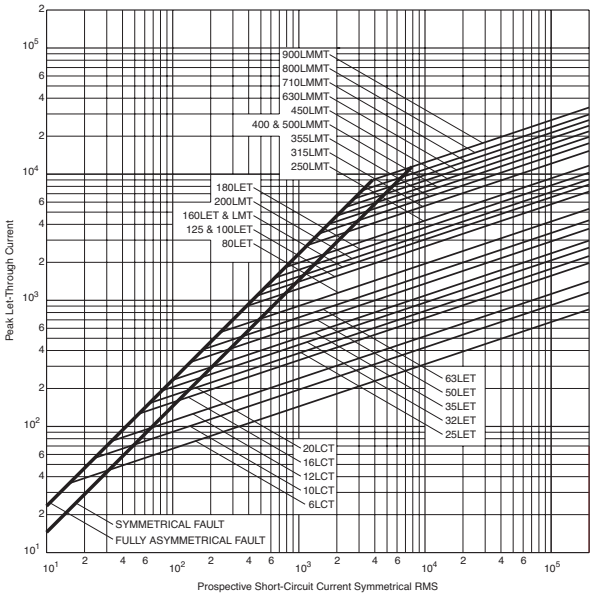
Time-Current Curve



Peak Let-Through Curve



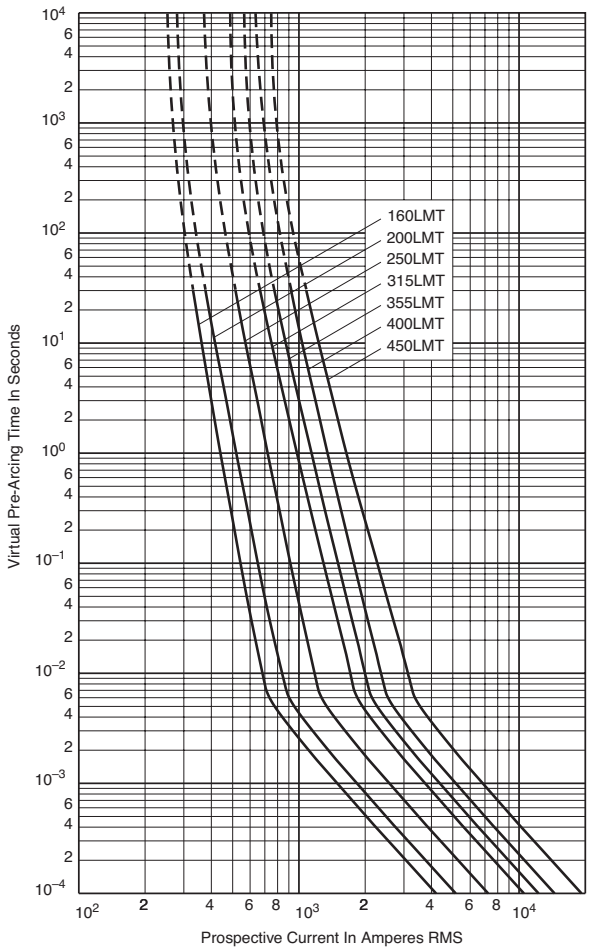
Peak Let-Through Curve



High Speed Fuses • British BS 88 • 240V: 6-900A

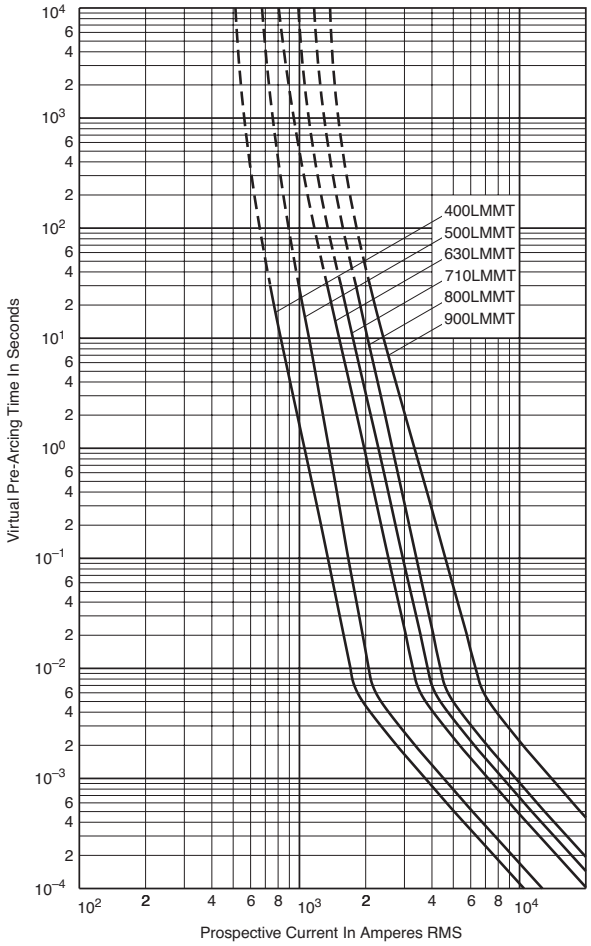
LMT 160-450A: 240V

Time-Current Curve

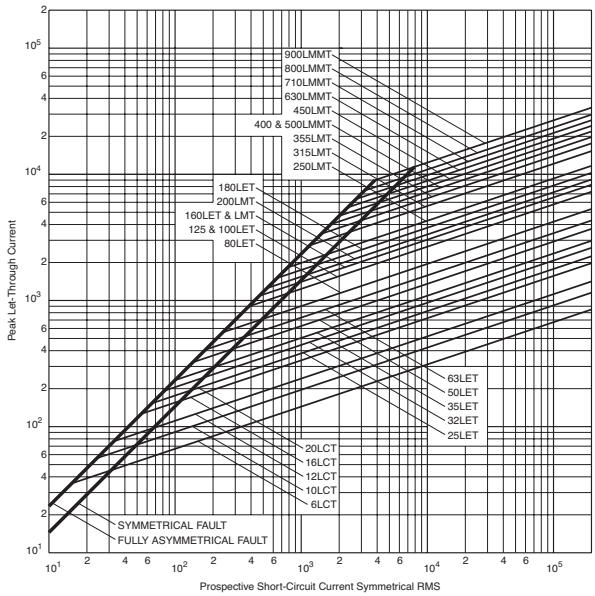


LMMT 400-900A: 240V

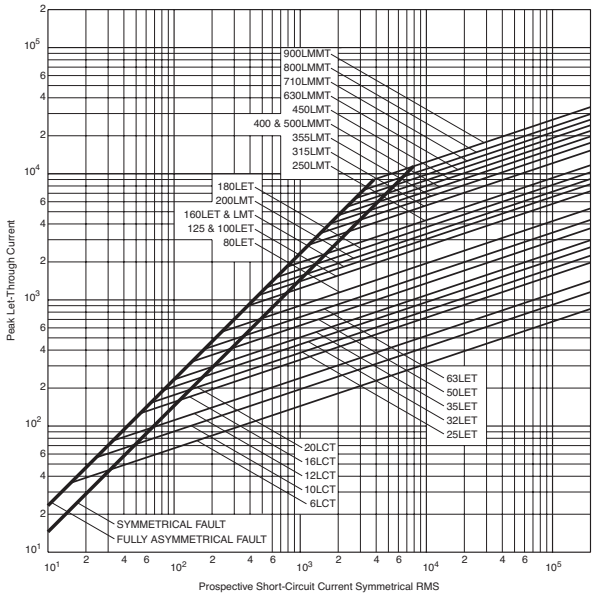
Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve



High Speed Fuses • British BS 88 • Accessories

Trip-indicator fuselinks are available for use in parallel with the main fuselinks. They can either be attached to the associated fuselink or mounted separately in panel mounted fuse clips, Part No. CL1. A push-on adapter and microswitch attachment is available for use with the trip indicator to give the facility of remote indication, reference MAI or MBI.

Fuse ratings of 20A and below cannot usually accommodate a trip fuselink in parallel.

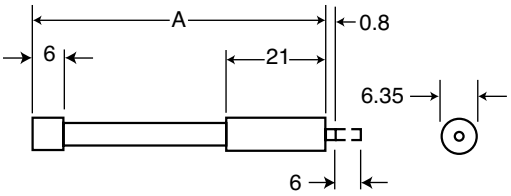
Where trip indicator fuselinks are to be attached to the main fuselink, an accessory pack comprising a pair of mounting clips and an appropriate trip indicator fuselink will be required.

The ordering code references for these packs are listed below:

Fuse Type	Order Ref.	Fuse Type	Order Ref.
ET	EC-600	FM	MC-600
EET	EC-600	FMM	MC-600
FE	EC-600	LMT	MC-250
FEE	EC-600	LMMT	MC-250
LET	EC-250		

Dimensions & Fuselink Data (mm)

Fuse Type	Dim. 'A' Max	Voltage Rating	Fuse Type	Dim. 'A' Max	Voltage Rating
TI250	37.6	250	TI1100	98.4	1100
TI500	47.5	500	TI1500	120.8	1500
TI600	55.7	600	TI2000	147.5	2000
TI700	61.8	700	TI2500	198.3	2500



1mm = 0.0394" / 1" = 25.4mm

Microswitch and Adapter Type MAI

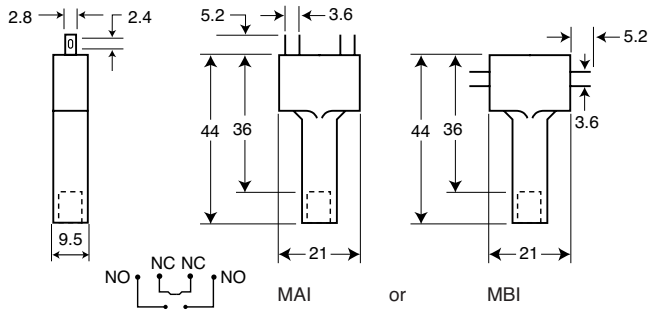
Current Ratings:

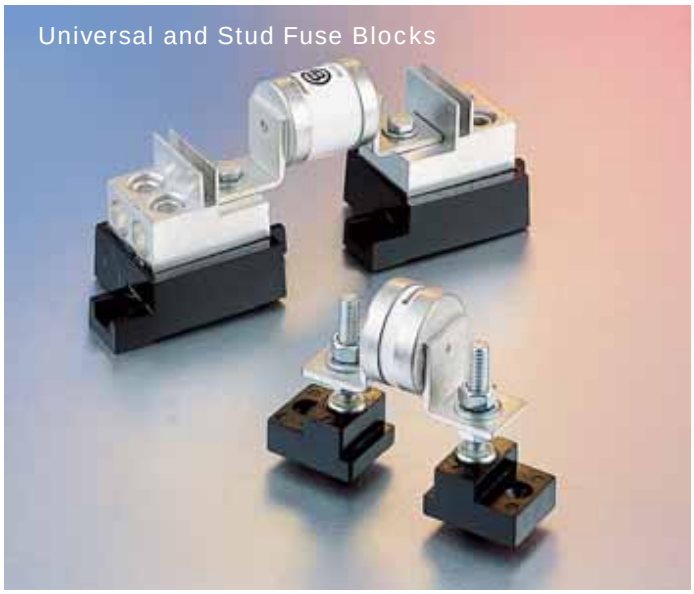
ac 50/60Hz resistive load @ 250Vrms	4A
ac 50/60Hz resistive load @ 127Vrms	6A

Maximum Working Voltage:

Contact-to-contact (rms)	1000V
Contact-to-contact (rms)	1500V

Dimensions (mm)





Stud Fuse Blocks

Catalog Numbers	Stud Height (in)	Stud Dia. & Threads
C5268-1	1.00	5/16-18
C5268-2	1.75	5/16-18
C5268-3	0.75	5/16-18
C5268-4	1.00	¼-20
C5268-5	1.75	¼-20

Universal Fuse Blocks

Modular Base	Max Voltage	Max Fuse Amp Rating	Data Sheet
1BS101	600	100	1206
1BS102	600	400	1207
1BS103	600	400	1208
1BS104	600	600	1209