150/250/500/600/700 VAC ■ Very Fast-Acting ■ 1 – 1000 Amperes





### **SPECIFICATIONS**

Voltage Ratings: L15S: 150 V AC/DC (1 - 60A)

150 VAC (70 - 1000A) 100 VDC (70 - 1000A)

L25S: 250 V AC/DC (1 - 200A) 250 VAC (225 - 800A) 200 VDC (225 - 800A)

L50S: 500 VAC/450VDC

L60S: 600 VAC KLC: 600 VAC

L70S: 700VAC/650VDC

Interrupting Rating: AC: 200,000 rms amperes

(L15S series 100,000 amperes)

DC: 20,000 amperes

**Ampere Range:** 1 – 1000 amperes

See Rating Table for ratings available

in each series.

**Approvals:** UL Recognized under the Components Program

and CSA Recognized under the Component

Acceptance Program. UL File No: E71611 CSA File No: LR29862

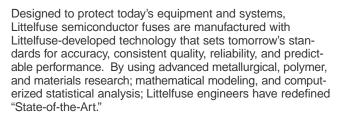
L15S and L25S series fuses are Littelfuse Certified for DC ratings shown in Rating Table.

### **AMPERE RATINGS**

See Rating Table.

### RECOMMENDED FUSE BLOCKS

LSCR series: Refer to Fuse Block section of this catalog for additional information.



#### **APPLICATIONS**

Designed specifically for supplementary protection of semiconducting devices such as silicon controlled rectifiers (SCR's), diodes, thyristors, triacs, transistors, and similar solid-state devices. These devices are used in power equipment including variable speed drives, power rectifiers, UPS systems, DC power supplies, and in a wide range of electronic equipment.

May be used wherever extremely fast-acting, current-limiting fuses with no time delay are required.

### SAFETY

- 200,000 A.I.R. Reliable interruption of all overcurrents up to 200,000 amperes . . . meets present and future system requirements. (Note: L15S series has 100,000 A.I.R.)
- Extremely Current Limiting Low I<sup>2</sup>t and peak let-through currents meet most semiconductor requirements.

## LONGER EQUIPMENT LIFE

- Low Watt Losses Means less heating and power consumption in circuit.
- Controlled Transient Overvoltages All circuits are subject to transient overvoltages during fault current interruption. These transient overvoltages (arc voltages) start when fuse links melt or circuit breaker contacts part, and subside when circuit is interrupted. Semiconductors are very sensitive to overvoltages. Littelfuse semiconductor fuse designs keep transient overvoltages to low levels and help reduce semiconductor failure.







## **RATING TABLE**

			Series	s & Voltage		
Ampere	L15S	L25S	L50S	L60S	KLC‡	L70S
Ratings	150V AC 150V DC (1 – 60A) 100V DC (70 – 1000A)	250V AC 250V DC (1 – 200A) 200V DC (225 – 800A)	500V AC 450V DC	600V AC	600V AC	700V AC 650V DC
1 2 3 4 5	L15S 1 L15S 2 L15S 3 L15S 4 L15S 5	L25S 1 L25S 2 L25S 3 L25S 4 L25S 5		L60S 1 L60S 2 L60S 3 L60S 4 L60S 5	KLC 1 KLC 2 KLC 3 KLC 4 KLC 5	
6 7 8 9	L15S 6 L15S 7 L15S 8 L15S 9	L25S 6 L25S 8		L60S 6	KLC 6 KLC 7 KLC 8	
10	L15S 10	L25S 10	L50S 10	L60S 10	KLC 10	L70S 10
12 15 17½ 20	L15S 12 L15S 15 L15S 20	L25S 12 L25S 15 L25S 20	L50S 12 L50S 15 L50S 20	L60S 12 L60S 15 L60S 17½ L60S 20	KLC 12 KLC 15 KLC 17½ KLC 20	L70S 15 L70S 20
25	L15S 25	L25S 25	L50S 25	L60S 25	KLC 25	L70S 25
30 35 40 45 50	L15S 30 L15S 35 L15S 40 L15S 45 L15S 50	L25S 30 L25S 35 L25S 40 L25S 45 L25S 50	L50S 30 L50S 35 L50S 40 L50S 50	L60S 30 L60S 35 L60S 40 L60S 45 L60S 50	KLC 30 KLC 35 KLC 40 KLC 45 KLC 50	L70S 30 L70S 35 L70S 40 L70S 50
60 70 80 90 100	L15S 60 L15S 70 L15S 80 L15S 90 L15S 100	L25S 60 L25S 70 L25S 80 L25S 90 L25S 100	L50S 60 L50S 70 L50S 80 L50S 90 L50S 100	L60S 60 L60S 70 L60S 80 L60S 90 L60S 100	KLC 60 KLC 70 KLC 80 KLC 90 KLC 100	L70S 60 L70S 70 L70S 80 L70S 90 L70S 100
110 125 150 175 200	L15S 125 L15S 150 L15S 200	L25S 125 L25S 150 L25S 175 L25S 200	L50S 125 L50S 150 L50S 175 L50S 200	L60S 125 L60S 150 L60S 175 L60S 200	KLC 110 KLC 125 KLC 150 KLC 175 KLC 200	L70S 125 L70S 150 L70S 175 L70S 200
225 250 275 300 350	L15S 250 L15S 300 L15S 350	L25S 225 L25S 250 L25S 275 L25S 300 L25S 350	L50S 225 L50S 250 L50S 275 L50S 300 L50S 350	L60S 225 L60S 250 L60S 300 L60S 350	KLC 225 KLC 250 KLC 300 KLC 350	L70S 225 L70S 250 L70S 300 L70S 350
400 450 500 550 600	L15S 400 L15S 450 L15S 500 L15S 600	L25S 400 L25S 450 L25S 500 L25S 600	L50S 400 L50S 450 L50S 500 L50S 550 L50S 600	L60S 400 L60S 450 L60S 500 L60S 600	KLC 400 KLC 450 KLC 500	L70S 400 L70S 450 L70S 500 L70S 600
700 800 900 1000	L15S 800 L15S 1000	L25S 700 L25S 800	L50S 700 L50S 800	L60S 700 L60S 800	KLC 700 KLC 800	L70S 700 L70S 800

<sup>‡</sup> KLC series fuses are recommended for replacement use only.









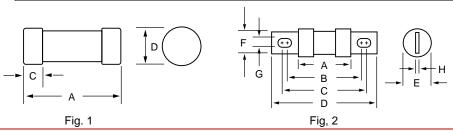
AMPERE RATING	FIG. NO.	DIMENSIONS IN INCHES (mm in parentheses)								
		Α	В	С	D	E	F	G	Н	
1 – 30	1	1-1/2 (38.1)	_	3/8 (9.5)	13/32 (10.3)	_	_	_	_	
31 – 60	1	2 (50.8)	_	5/8 (15.9)	13/16 (20.6)	_	_	_	_	
61 – 450	3	1-5/32 (29.4)	1-7/8 (47.6)	2-3/16 (55.6)	2-21/32 (67.5)	1 (25.4)	43/64 (17.1)	5/16 (7.9)	3/1 (4.8	
451 – 1000	3	1-1/4 (31.8)	1-15/16 (49.2)	2-9/16 (65.1)	3-1/2 (88.9)	1-1/2 (38.1)	1 (25.4)	13/32 (10.3)	1/4	



AMPERE RATING	FIG. NO.		DIMENSIONS IN INCHES (mm in parentheses)								
		Α	В	С	D	E	F	G	ı		
1 – 30	1	2 (50.8)	_	1/2 (12.7)	9/16 (14.3)	_	_	_	-		
31 – 60	2	1-5/8 (41.3)	2-1/4 (57.2)	2-1/2 (63.5)	3-3/16 (81.0)	13/16 (20.6)	23/32 (18.3)	11/32 (8.7)	1. (3		
61 – 200	3	1-5/8 (41.3)	2-5/16 (58.7)	2-7/16 (61.9)	3-1/8 (79.4)	1-7/32 (31.0)	1 (25.4)	5/16 (7.9)	3/ (4		
201 – 700	3	1-19/32 (40.5)	2-9/32 (57.9)	2-29/32 (73.8)	3-27/32 (97.6)	1-1/2 (38.1)	1 (25.4)	13/32 (10.3)	1. (6		
701 – 800	3	1-19/32 (40.5)	2-9/32 (57.9)	2-29/32 (73.8)	3-27/32 (97.6)	2 (50.8)	1-1/2 (38.1)	13/32 (10.3)	1. (6		



AMPERE RATING	FIG.	DIMENSIONS IN INCHES (mm in parentheses)								
	NO.	Α	В	С	D	Е	F	G	Н	
10 – 30	1	2 (50.8)	_	1/2 (12.7)	9/16 (14.3)	_	_	_	_	
31 – 60	2	1-5/8 (41.3)	2-1/4 (57.2)	2-1/2 (63.5)	3-3/16 (81.0)	13/16 (20.6)	23/32 (18.3)	11/32 (8.7)	1/8 (3.2	
61 – 100	3	2-1/8 (54.0)	2-11/16 (68.3)	3-1/32 (77.0)	3-5/8 (92.1)	1 (25.4)	3/4 (19.1)	11/32 (8.7)	1/8 (3.2	
101 – 200	3	2-1/8 (54.0)	2-13/16 (71.4)	2-15/16 (74.6)	3-5/8 (92.1)	1-7/32 (31.0)	1 (25.4)	5/16 (7.9)	3/16 (4.8	
201 – 400	3	2-3/32 (53.2)	2-25/32 (70.6)	3-13/32 (86.5)	4-11/32 (110.3)	1-1/2 (38.1)	1 (25.4)	13/32 (10.3)	1/4 (6.4	
401 – 600	3	2-7/32 (56.4)	2-29/32 (73.8)	3-17/32 (89.7)	4-15/32 (113.5)	2 (50.8)	1-1/2 (38.1)	13/32 (10.3)	1/4 (6.4	
601 – 800	3	2-7/32 (56.4)	4-9/32 (108.7)	4-5/8 (117.5)	6-15/32 (164.3)	2-1/2 (63.5)	2 (50.8)	17/32 (13.5)	3/8 (9.5	











AMPERE RATING	FIG. NO.	DIMENSIONS IN INCHES (mm in parentheses)								
		Α	В	С	D	E	F	G	Н	
1 – 30	1	5 (127.0)	_	5/8 (15.9)	13/16 (20.6)	_	_	_	_	
31 – 60	2	2-25/32 (70.6)	3-7/16 (87.3)	3-11/16 (93.7)	4-3/8 (111.1)	13/16 (20.6)	23/32 (18.3)	11/32 (8.7)	1/8 (3.2)	
61 – 100	2	2-29/32 (73.8)	3-17/32 (89.7)	3-25/32 (96.0)	4-15/32 (113.5)	1-1/16 (27.0)	23/32 (18.3)	11/32 (8.7)	1/8 (3.2	
101 – 200	2	2-29/32 (73.8)	3-9/16 (90.5)	3-3/4 (95.3)	4-13/32 (111.9)	1-5/16 (33.3)	1 (25.4)	5/16 (7.9)	3/16 (4.8)	
201 – 400	2	2-29/32 (73.8)	3-31/32 (100.8)	4-5/32 (105.6)	5-1/8 (130.2)	1-37/64 (40.1)	1 (25.4)	13/32 (10.3)	1/4 (6.4	
401 – 600	2	2-7/8 (73.0)	3-31/32 (100.8)	4-9/64 (105.2)	5-1/8 (130.2)	2-1/16 (52.8)	1-1/2 (38.1)	13/32 (10.3)	1/4 (6.4	
601 – 800	2	3-1/32 (77.0)	5-5/32 (133.4)	5-11/32 (135.7)	7-1/4 (184.2)	2-1/2 (63.5)	2 (50.8)	17/32 (13.5)	3/8 (9.5	



AMPERE	FIG.	FIG. DIMENSIONS IN INCHES (mm in parentheses)								
RATING	NO.	Α	В	С	D	Е	F	G	Н	J
10 – 30	1	2 (50.8)	_	1/2 (12.7)	9/16 (14.3)	_	_	_	_	_
31 – 60	3	2-7/8 (73.0)	3-7/16 (87.3)	3-25/32 (96.0)	4-3/8 (111.1)	1 (25.4)	43/64 (17.1)	11/32 (8.7)	1/8 (3.2)	_
61 – 100	3	2-7/8 (73.0)	3-9/16 (90.5)	3-11/16 (93.7)	4-3/8 (111.1)	1-7/32 (31.0)	29/32 (22.9)	5/16 (7.9)	3/16 (4.8)	_
101 – 200	3	2-27/32 (72.2)	3-17/32 (89.7)	4-5/32 (105.6)	5-3/32 (129.4)	1-1/2 (38.1)	1 (25.4)	13/32 (10.3)	1/4 (6.4)	_
201 – 400	3	2-27/32 (72.2)	3-17/32 (89.7)	4-5/32 (105.6)	5-3/32 (129.4)	2 (50.8)	1-1/2 (38.1)	13/32 (10.3)	1/4 (6.4)	_
401 – 600	3	2-27/32 (72.2)	4-29/32 (124.6)	5-1/4 (133.4)	7-3/32 (180.2)	2-1/2 (63.5)	2 (50.8)	17/32 (13.5)	3/8 (9.5)	_
601 – 800	4	3-5/16 (84.1)		6-13/16 (173.0)	_	2-7/8 (73.0)	2 (50.8)	5/8 (15.9)	3/8 (9.5)	5/10 (7.9



KLC SERIES, 600 VOLTS AC										
AMPERE	FIG. NO.	DIMENSIONS IN INCHES (mm in parentheses)								
RATING		Α	В	С	D	E	F	G	Н	
1 – 30	2	1-7/8 (47.6)	2-1/2 (63.5)	_	2-7/8 (73.0)	9/16 (14.3)	13/32 (10.3)	1/4 (6.4)	3/64 (1.2)	
31 – 60	2	2-3/4 (69.9)	3-3/8 (85.7)	3-5/8 (92.1)	4-5/16 (109.5)	13/16 (20.6)	23/32 (18.3)	11/32 (8.7)	1/8 (3.2)	
61 – 100	3	2-7/8 (73.0)	3-21/32 (92.9)	4-1/16 (103.2)	5 (127.0)	1 (25.4)	3/4 (19.1)	13/32 (10.3)	1/8 (3.2)	
101 – 200	3	2-27/32 (72.2)	3-17/32 (89.7)	4-3/8 (111.1)	5-3/32 (129.4)	1-1/2 (38.1)	1 (25.4)	13/32 (10.3)	1/4 (6.4)	
201 – 400	3	2-27/32 (72.2)	4-21/32 (118.3)	4-27/32 (123.0)	6-1/4 (158.8)	2 (50.8)	1-5/8 (41.3)	9/16 (14.3)	1/4 (6.4)	
401 – 800	3	2-27/32 (72.2)	4-21/32 (118.3)	5-11/32 (135.7)	6-1/4 (158.8)	2-1/2 (63.5)	2 (50.8)	9/16 (14.3)	3/8 (9.5)	

