

FUSE CLASS AND SELECTION CHART

UL CLASS	LITTELFUSE SERIES	OVERLOAD CHARACTERISTICS	AC RATINGS			DC RATINGS			RECOMMENDED ACCESSORIES
			VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	
 L	KLPC	Time-Delay	600	200–6000	200 K/300 K*	480	200–6000	20,000*	–
	KLLU	Time-Delay	600	601–4000	200,000	300	601–4000	20,000*	
	LDC	Fast-Acting	600	150–2000	200,000	600	150–2000	50,000	
 RK1	LLNRK	Time-Delay	250	0.1–600	200 K/300 K*	125	0.1–600	20,000*	LFR25
	LLSRK_ID	Time-Delay	600	0.1–600		300	0.1–600		LFR60
	LLSRK	Time-Delay	600	0.1–600		300	0.1–600		LFR60
	KLNR	Fast-Acting	250	1–600	125	1–600	LFR25		
	KLSR	Fast-Acting	600	1–600	200,000	250 300	1–30 35–600		LFR60
 RK5	FLNR_ID	Time-Delay	250	35–600	200 K/300 K*	125	35–600	20,000	LFR25
	FLNR		250	0.1–600		125	0.1–600		
	FLSR_ID		600	0.1–600		300	0.1–600		
	FLSR		600	0.1–600		300	0.1–600		
	IDSR		600	0.1–600		600	0.1–600		LFR60
 J	JTD_ID	Time-Delay	600	0.8–600	200 K/300 K*	300	0.8–100	20,000*	LFG60 • LFPSJ
	JTD	Time-Delay	600	0.8–600		500	110–600		
	JLS	Fast-Acting	600	1–600	200,000	–	–	–	
 T	JLLN	Fast-Acting	300	1–1200	200,000	160 125	1–60 70–1200	20 K (1–30 A)* 20 K (35–1200 A)	LFT30 • LSCR (700–800 A)
	JLLS		600	1–1200		300	1–1200	20 K (1–1200 A)*	LFT60 • LSCR (700–800 A)
 CC	CCMR	Time-Delay	600	0.2–30	200 K/300 K*	250 250 300 500	0.2–2 4.5–10 2.25–4 12–30	20,000*	L60030C LFPSJ LPSC • 571 572 LEC • LEY
	KLDR	Time-Delay	600	0.1–30	200,000	300	0.1–30		
	KLKR	Fast-Acting	600	0.1–30	200,000	300	0.1–30		
 CD	CCMR	Time-Delay	600	35–60	200 K/300 K*	250	35–60	20,000*	LFC60060
 G	SLC	Time-Lag	600 480	0.5–20 25–60	100,000	170	0.5–60	10,000*	LFG600 (½–20 A) LFG480 (25–60 A)
 K5	NLN	Fast-Acting	250	1–600	50,000	250	1–600	20 K (1–60 A) 50 K (70–600 A)	LFH25
	NLS		600	1–600		600 500 400 600 500	1–7 8–30 35–60 70–200 225–600	20 K (1–60 A) 50 K (70–600 A)	LFH60

* Littelfuse self-certified

CLASS J – JLS SERIES FUSES

600 VAC • Fast-Acting • 1-600 A



Description

The UL Listed Class J JLS Series fuses provide space saving, fast-acting overload and short-circuit protection for vital industrial and power conversion applications. Littelfuse's JLS Series fuses offer best in class current limitation that prevents equipment damage from overcurrent faults.

Features and Benefits

- Superior performance in a space saving package
- Reliable interruption of all overcurrents with protection up to 200kA
- Extremely current limiting
- Fast-acting protection for surge-sensitive devices and components
- Reduces heating and magnetic effects due to overcurrents, extending equipment life
- Economical and readily available

Applications

- Power conversion device protection
- Variable speed drives
- Rectifiers
- Resistive loads
- Solid-state devices

Web Resources

Download TC curves, CAD drawings and other technical information: littelfuse.com/jls

Recommended Fuse Holders

LFJ60 Series	91
LFPSJ Series (8/10-60 A).....	118

Specifications

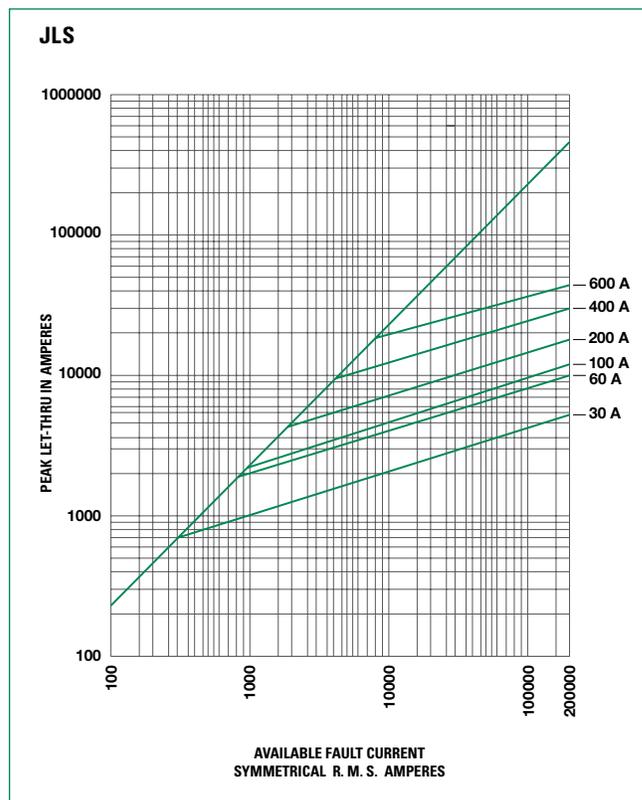
Voltage Ratings	600 VAC
Interrupting Ratings	200 kA rms symmetrical
Ampere Range	1-600 A
Approvals	Standard 248-8, Class J UL Listed (File: E81895) CSA Certified (File: LR29862) Federal Specification WF-1814 (QPL-W-F-1814)

Ordering Information

AMPERE RATINGS					
1	20	45	90	175	350
3	25	50	100	200	400
6	30	60	110	225	450
10	35	70	125	250	500
15	40	80	150	300	600

TYPE	SERIES	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER
NON-INDICATING	JLS	110	JLS110	0JLS110.X

Peak Let-Thru Curve



Dimensions

Please refer to the Class J dimensions 23

CLASS J DIMENSIONS AND CURRENT-LIMITING EFFECTS

1

UL Class J Fuses

Dimensions Inches (mm)

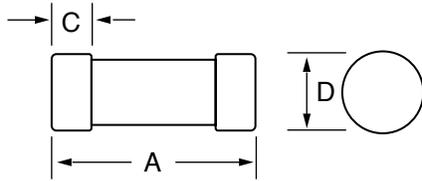


Fig. 1

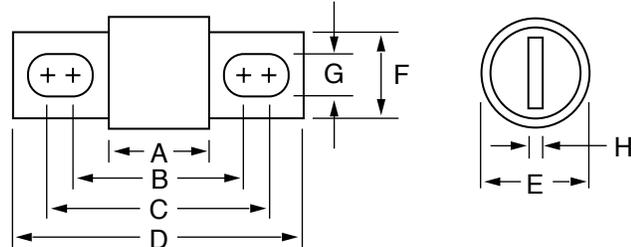


Fig. 2

Dimensions of JTD_ID, JTD and JLS

AMPERES	FIGURE NUMBER	DIMENSIONS INCHES (mm)							
		A	B	C	D	E	F	G	H
1 – 30	1	2¼ (57.2)	—	½ (12.7)	1¾/16 (20.6)	—	—	—	—
35 – 60	1	2¾ (60.3)	—	5/8 (15.9)	1¼/16 (27.0)	—	—	—	—
70 – 100	2	2½ (66.7)	3 ¹⁷ / ₃₂ (89.7)	3 ²³ / ₃₂ (94.5)	4 ⁵ / ₈ (117.5)	1½ (28.6)*	¾ (19.1)	9/32 (7.1)	1/8 (3.2)
110 – 200	2	3 (76.2)	4 ⁹ / ₃₂ (108.7)	4 ¹⁵ / ₃₂ (113.5)	5 ³ / ₄ (146.1)	1½ (38.1)	1½ (28.6)	9/32 (7.1)	3/16 (4.8)
225 – 400	2	3 ³ / ₈ (85.7)	5/8 (130.2)	5 ⁵ / ₈ (136.5)	7½ (181.0)	2 (50.8)	1 ⁵ / ₈ (41.3)	1 ³ / ₃₂ (10.3)	¼ (6.4)
450 – 600	2	3 ³ / ₄ (95.3)	5 ²⁷ / ₃₂ (148.4)	6 ⁵ / ₃₂ (156.4)	8 (203.2)	2½ (63.5)	2 (50.8)	1 ⁷ / ₃₂ (13.5)	3/8 (9.5)

*70-100 A JLS dimension = 1 (25.4)

Current-Limiting Effects of JTD_ID (600 V) Fuses

SHORT CIRCUIT CURRENT†	APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS						
	15 A	30 A	60 A	100 A	200 A	400 A	600 A
5,000	565	750	1,500	1,800	2,800	4,800	5,000
10,000	675	925	1,900	2,450	3,600	5,700	7,750
15,000	775	1,050	2,100	2,800	4,100	6,500	9,000
20,000	825	1,125	2,300	3,000	4,400	7,250	9,700
25,000	900	1,200	2,500	3,300	5,000	8,000	10,500
30,000	950	1,300	2,600	3,500	5,100	8,400	11,000
35,000	1,000	1,350	2,700	3,700	5,400	9,000	12,000
40,000	1,050	1,400	2,800	3,900	5,600	9,200	12,500
50,000	1,100	1,500	3,000	4,200	6,000	10,000	13,000
60,000	1,200	1,600	3,200	4,500	6,400	10,500	14,000
80,000	1,300	1,700	3,400	4,900	7,200	11,200	15,500
100,000	1,375	1,800	3,600	5,200	7,800	12,200	16,500
150,000	1,500	2,000	3,950	6,000	9,000	14,500	19,000
200,000	1,600	2,175	4,000	6,500	10,000	16,000	20,500

†Prospective RMS Symmetrical Amperes Short-Circuit Current
 Note: Data derived from Peak Let-Thru Curves