

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	200,000	125	1–600		LFR25
	KLSR	Fast-Acting	600	1–600		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		LFR60
	FLSR		600	0.1–600		300	0.1–600		
	IDSR		600	0.1–600		600	0.1–600		
 J	JTD_ID	Time-Delay	600	0.8–600	200 K/300 K*	300	0.8–100	20,000*	LFJ60 • 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*	300 500	2/10–10 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 T - JLLN / JLLS SERIES FUSES

300/600 V ac • Fast-Acting • 1–1200 A



1
UL Class T Fuses



Description

JLLN / JLLS series fuses are less than 1/3 the size of comparable Class R fuses and are typically used for short circuit protection of drives and surge sensitive components. When rated in accordance with the NEC*, JLLN / JLLS fuses provide fast-acting overload and short circuit protection for non-inductive circuits and equipment.

Features/Benefits

- Extremely current-limiting
- Compact design
- 200 kA interrupting rating
- JLLN 35–60 amperes available with PCB mounts

Applications

- Variable speed drive protection
- Power conversion devices (inverters, rectifiers, UPS)
- Power supplies and power distribution units
- Compact mains switches

Recommended Fuse Holders

LFT30 series
LFT60 series
LSCR series for 70–800 amperes

Web Resources

Download TC curves, CAD drawings and other technical information: Littelfuse.com/jlln
Littelfuse.com/jlls

*NEC is a trademark of it's respective owner.

Specifications

JLLN

Voltage Ratings

Ac: 300 V
Dc: 160 V (1–60 A)
125 V (70–1200 A)

Ampere Range

1–1200 A

Interrupting Ratings

Ac: 200 kA rms symmetrical
Dc: 50 kA (1–30 A)
20 kA (35–1200 A)

Approvals

Ac: UL Standard 248-15, Class T
UL Listed (File: E81895): 1–1200 A
CSA Certified (File: LR29862): 1–600 A
Dc: UL Listed (File: E81895): 1–1200 A

Material

1–30 A: melamine body, bronze caps

Environmental

35–1200 A: melamine body, copper caps

RoHS compliant

JLLS

Voltage Ratings

Ac: 600 V
Dc: 300 V

Ampere Range

1–1200 A

Interrupting Ratings

Ac: 200 kA rms symmetrical
Dc: 20 kA

Approvals

Ac: UL Standard 248-15, Class T
UL Listed (File: E81895): 1–1200 A
CSA Certified (File: LR29862): 1–600 A
Dc: Littelfuse self-certified

Material

1–30 A: melamine body, copper caps

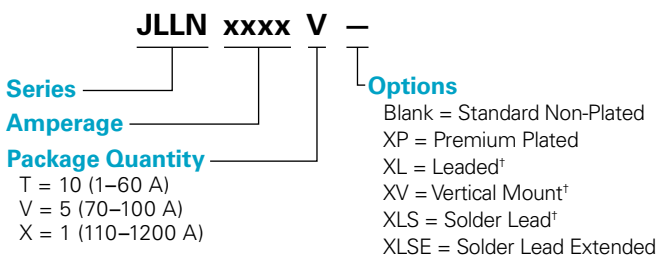
35–60 A: melamine body, bronze caps

70–1200 A: melamine body, copper caps

Environmental

RoHS compliant

Part Numbering System



SERIES	AMP	PACK SIZE	PLATING SUFFIX	MOUNT SUFFIX	CATALOG NUMBER	ORDERING NUMBER
JLLS	6	T	—	—	JLLS006	JLLS006.T
JLLN	35	T	—	XL†	JLLN035L	JLLN035.TXL
JLLN	40	T	—	XLSE†	JLLN040LSE	JLLN040.TXLSE
JLLN	100	V	XP	—	JLLN100P	JLLN100.VXP

†Option is available for JLLN 35–60 amperes only. Premium plating is standard

Ordering Information

AMPERE RATINGS					
1	25	70	175	450	1100
2	30	80	200	500	1200
3	35	90	225	600	
6	40	100	250	700	
10	45	110	300	800	
15	50	125	350	900*	
20	60	150	400	1000	

*JLLS only

CLASS T - JLLN / JLLS SERIES FUSES

Dimensions Inches (mm)

AMPERES	REFER TO FIG. NO.	SERIES	DIMENSIONS INCHES (mm)						
			A	B	C	D	E	F	G
1–30	1	JLLN	.875 (22.2)	—	.281 (7.1)	.406 (10.3)	—	—	—
		JLLS	1.500 (38.1)	—	.281 (7.1)	.562 (14.3)	—	—	—
35–60	1	JLLN	.875 (22.2)	—	.281 (7.1)	.562 (14.3)	—	—	—
	2	JLLS	1.562 (39.7)	.812 (20.6)	.406 (10.3)	.994 (25.2)	.062 (1.6)	1.094 (27.8)	—
70–100	3	JLLN	2.156 (54.8)	1.562 (39.7)	.750 (19.1)	.812 (20.6)	.830 (21.1)	.281 (7.1)	.125 (3.2)
		JLLS	2.953 (75.0)	2.352 (59.7)	.750 (19.1)	.828 (21.0)	1.625 (41.3)	.281 (7.1)	.125 (3.2)
110–200	3	JLLN	2.437 (61.9)	1.687 (42.9)	.875 (22.2)	1.062 (27.0)	.830 (21.1)	.343 (8.7)	.187 (4.8)
		JLLS	3.250 (82.6)	2.507 (63.7)	.875 (22.2)	1.078 (27.4)	1.656 (42.1)	.343 (8.7)	.187 (4.8)
225–400	3	JLLN	2.750 (69.9)	1.843 (46.8)	1.000 (25.4)	1.312 (33.3)	.828 (21.0)	.406 (10.3)	.250 (6.4)
		JLLS	3.625 (92.1)	2.718 (69.1)	1.000 (25.4)	1.593 (40.5)	1.712 (43.5)	.406 (10.3)	.250 (6.4)
450–600	3	JLLN	3.062 (77.8)	2.031 (51.6)	1.250 (31.8)	1.593 (40.5)	.875 (22.2)	.484 (12.3)	.312 (7.9)
		JLLS	3.984 (101.2)	2.953 (75.0)	1.250 (31.8)	2.062 (52.4)	1.765 (44.8)	.484 (12.3)	.312 (7.9)
700–800	3	JLLN	3.375 (85.7)	2.218 (56.4)	1.750 (44.5)	2.062 (52.4)	.875 (22.2)	.546 (13.9)	.375 (9.5)
		JLLS	4.328 (109.9)	3.171 (80.6)	1.750 (44.5)	2.500 (63.5)	1.860 (47.2)	.546 (13.9)	.375 (9.5)
900–1200	3	JLLN	4.000 (101.6)	2.531 (64.3)	2.000 (50.8)	2.500 (63.5)	1.033 (26.2)	.609 (15.5)	.437 (11.1)
		JLLS	5.271 (133.9)	3.801 (96.5)	2.000 (50.8)	2.625 (66.7)	2.303 (58.5)	.609 (15.5)	.437 (11.1)

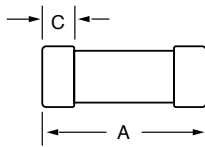


Fig. 1

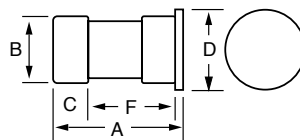


Fig. 2

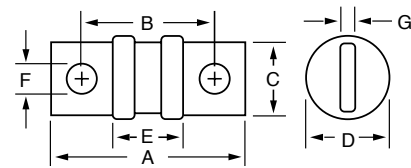


Fig. 3