Littelfuse®
Expertise Applied | Answers Delivered

JLLN/JLLS CLASS T FUSES

300/600 VAC • Fast-Acting • 1-600 Amperes

Specifications

Voltage Ratings:	AC:	300 V (JLLN); 600 V (JLLS)
	DC:	125 V (JLLN 1 – 30 A)
		160 V (JLLN 35 – 60 A)
		125 V (JLLN 70 – 100 A)
		125 V (JLLN 110 – 1200 A)
		300 V (JLLS)
Interrupting Ratings:	AC:	200 kA rms symmetrical
	DC:	20 kA
		(JLLN 70 – 100 A)
		(JLLN 110 – 1200 A)
		(JLLS 1 – 1200 A)
Ampere Range:	1 – 1200 A	
Approvals:	AC:	Standard 248-15, Class T
		UL Listed (File No. E81895):
		JLLN (1-1200 A)
		JLLS (1-800 A)
		UL Recognized (File No. E71611)
		JLLS (900 – 1200 A)
		CSA Certified (File No. LR29862)
		JLLN/JLLS (1 – 600 A)
	DC:	UL Listed (File No. E81895):
		JLLN (35 – 1200 A)
		Littelfuse self-certified:
		JLLN (1-30 A)
		JLLS (1 – 1200 A)

Description

JLLN/JLLS 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.

Applications

- Variable speed drive protection
- Compact mains switches

Features/Benefits

- Extremely current-limiting
- Compact design
- 200 kA Interrupting Rating
- JLLN Series is RoHS Compliant

Ordering Information

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

*JLLS only
Note: Contact the factory for RoHS compliant Class T fuses.

SERIES	VOLTAGE	AMPERAGE	CATALOG NUMBER	SYSTEM NUMBER
JLLS	600 V	6	JLLS006	JLLS006.T
JLLN	300 V	10	JLLN010	JLLN010.T

Web Resources

TC Curves, downloadable CAD drawings and other technical information: **www.littelfuse.com/jlln**
www.littelfuse.com/jlls

Recommended Fuseholders

LFT30 Series
LFT60 Series
LSCR Series for 700-800 A

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JLLN/JLLS CLASS T FUSES

Dimensions in inches (mm)

Fig. 1

Fig. 2

Fig. 3

AMPERES	REFER TO FIG. NO.	SERIES	DIMENSIONS IN INCHES (mm)						
			A	B	C	D	E	F	G
1 – 30	1	JLLN	7/8 (22.2)	—	9/32 (7.1)	13/32 (10.3)	—	—	—
		JLLS	1 1/2 (38.1)	—	9/32 (7.1)	9/16 (14.3)	—	—	—
35 – 60	1	JLLN	7/8 (22.2)	—	9/32 (7.1)	9/16 (14.3)	—	—	—
	2	JLLS	1 9/16 (39.7)	13/16 (20.6)	13/32 (10.3)	1 (25.4)	1/16 (1.6)	1 3/32 (27.8)	—
70 – 100	3	JLLN	2 5/32 (54.8)	1 9/16 (39.7)	3/4 (19.1)	13/16 (20.6)	27/32 (21.4)	9/32 (7.1)	1/8 (3.2)
		JLLS	2 61/64 (75.0)	2 23/64 (59.9)	3/4 (19.1)	13/16 (20.6)	1 41/64 (41.7)	9/32 (7.1)	1/8 (3.2)
110 – 200	3	JLLN	2 7/16 (61.9)	1 11/16 (42.9)	7/8 (22.2)	1 1/16 (27.0)	27/32 (21.4)	11/32 (8.7)	3/16 (4.8)
		JLLS	3 1/4 (82.6)	2 1/2 (63.5)	7/8 (22.2)	1 1/16 (27.0)	1 21/32 (42.1)	11/32 (8.7)	3/16 (4.8)
225 – 400	3	JLLN	2 3/4 (69.9)	1 27/32 (46.8)	1 (25.4)	1 5/16 (33.3)	53/64 (21.0)	13/32 (10.3)	1/4 (6.4)
		JLLS	3 5/8 (92.1)	2 23/32 (69.1)	1 (25.4)	1 19/32 (40.5)	1 23/32 (43.7)	13/32 (10.3)	1/4 (6.4)
450 – 600	3	JLLN	3 1/16 (77.8)	2 1/32 (51.6)	1 1/4 (31.8)	1 19/32 (40.5)	7/8 (22.2)	31/64 (12.3)	5/16 (7.9)
		JLLS	3 63/64 (101.2)	2 61/64 (75.0)	1 1/4 (31.8)	2 1/16 (52.4)	1 49/64 (44.8)	31/64 (12.3)	5/16 (7.9)
700 – 800	3	JLLN	3 3/8 (85.7)	2 7/32 (64.3)	1 3/4 (44.5)	2 1/16 (52.4)	7/8 (22.2)	35/64 (13.9)	3/8 (9.5)
		JLLS	4 21/64 (109.9)	3 11/64 (80.6)	1 3/4 (44.5)	2 1/2 (63.5)	1 55/64 (47.2)	35/64 (13.9)	3/8 (9.5)
900 – 1200	3	JLLN	4 (101.6)	2 17/32 (64.3)	2 (50.8)	2 1/2 (63.5)	1 1/32 (26.2)	39/64 (15.5)	7/16 (11.1)
		JLLS	5.27 (133.9)	3.80 (96.5)	2 (50.8)	2.63 (66.8)	2.30 (58.4)	0.67 (15.5)	0.44 (11.2)

Current-Limiting Effects of JLLN (300 V) fuses

SHORT CIRCUIT CURRENT*	APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS							
	30 A	60 A	100 A	200 A	400 A	600 A	800 A	1200 A
5,000	700	775	1,100	1,650	3,500	4,000	5,000	5,000
10,000	900	1,000	1,400	2,100	4,400	5,100	6,750	8,250
15,000	1,000	1,100	1,600	2,400	5,000	5,900	7,750	10,000
20,000	1,100	1,250	1,800	2,700	5,500	6,500	8,750	11,000
25,000	1,230	1,300	1,950	2,900	6,000	7,000	9,500	12,000
30,000	1,300	1,475	2,050	3,100	6,400	7,500	10,000	12,500
35,000	1,330	1,575	2,150	3,300	6,750	7,750	10,500	13,500
40,000	1,430	1,600	2,300	3,500	7,000	8,000	11,000	14,000
50,000	1,500	1,750	2,400	3,700	7,500	8,750	12,000	15,000
60,000	1,700	1,900	2,700	4,000	8,000	9,500	12,500	16,000
80,000	1,850	2,100	2,800	4,400	9,000	10,500	14,000	17,500
100,000	2,000	2,250	3,150	4,800	9,750	11,500	15,000	18,500
150,000	2,300	2,600	3,600	5,500	11,000	13,000	17,500	22,000
200,000	2,600	2,800	3,900	6,000	12,000	14,500	19,500	24,000

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

Current-Limiting Effects of JLLS (600 V) fuses

SHORT CIRCUIT CURRENT*	APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS							
	30 A	60 A	100 A	200 A	400 A	600 A	800 A	1200 A
5,000	750	1,225	1,400	2,850	4,600	5,000	5,000	5,000
10,000	945	1,525	1,700	3,600	6,000	8,500	9,400	10,000
15,000	1,050	1,700	2,000	4,050	6,600	9,750	10,500	13,000
20,000	1,150	1,900	2,200	4,450	7,250	10,500	11,000	14,750
25,000	1,300	2,050	2,400	4,800	8,000	11,500	12,500	15,500
30,000	1,375	2,150	2,450	5,000	8,250	12,000	13,750	16,500
35,000	1,400	2,250	2,600	5,100	8,500	13,000	14,000	17,000
40,000	1,425	2,400	2,800	5,200	8,700	14,000	14,750	18,000
50,000	1,600	2,450	2,900	6,000	9,500	14,500	16,000	20,000
60,000	1,650	2,625	3,100	6,250	10,000	15,500	17,300	21,000
80,000	1,825	2,800	3,400	7,000	11,000	17,000	18,750	23,000
100,000	2,000	3,100	3,700	7,250	12,000	18,000	20,000	25,000
150,000	2,250	3,400	4,300	8,500	13,000	21,000	23,000	28,500
200,000	2,450	3,800	4,600	9,000	15,000	23,000	25,000	31,000

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

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Peak Let-Thru Curve JLLS

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
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