

# JLLN/JLLS POWR-T™ Class T Fuses

300/600 VAC ■ Fast-Acting ■ 1 – 1200 Amperes



Space saving POWR-T™ fuses are the most compact fuses available in ratings above 30 amperes — less than one-third the size of comparable Class R fuses. When rated in accordance with the NEC, POWR-T fuses provide fast-acting overload and short circuit protection for non-inductive circuits and equipment. Used in inductive circuits, the ampere rating of POWR-T fuses must be increased to prevent opening on inrush currents. In such instances, POWR-T fuses may provide only short circuit protection.

For motor and general purpose circuits where space is not critical, we recommend POWR-PRO® JTD\_ID Indicator series, LLNRK/LLSRK series, or FLSR\_ID Indicator series.

## APPLICATIONS

Protection of individual electric services and meters.

Main switches containing Class T fuses may be used to provide compact protection for meter stacks.

Molded case circuit breaker load centers and panelboards have increased interrupting ratings when “series rated” with Littelfuse Class T fuses. Refer to panelboard manufacturers’ literature for UL Listed combination of fuses and panelboards. Series ratings up to 200,000 amperes are available.

## SPACE-SAVING

Typical three-pole Class T fuse blocks require less than 50% of the panel area required for Class R fuse blocks. Switch enclosures, fuse pullouts, and other equipment using Class T fuses are often correspondingly more compact.

## SAFETY

- 200,000 A.I.R. — Reliable interruption of all overcurrents up to 200,000 amperes.

## SPECIFICATIONS

**Voltage Ratings:** AC: 300 Volts (JLLN); 600 Volts (JLLS)  
DC: 125 Volts (JLLN 110 – 1200A);  
300 Volts (JLLS)

**Interrupting Ratings:** AC: 200,000 amperes rms symmetrical  
DC: 20,000 amperes  
(JLLN 110 – 1200A)  
(JLLS 1 – 1200A)

**Ampere Range:** 1 – 1200 amperes

**Approvals:** AC: Standard 248-15, Class T  
UL Listed (File No: E81895):  
JLLN/JLLS (1 – 800A)  
UL Recognized (File No: E71611):  
JLLS (900 – 1200A)  
CSA Certified (File No: LR29862):  
JLLN/JLLS (1 – 600A)  
DC: UL Listed (File No: E81895):  
JLLN (110 – 1200A)  
Littelfuse Self-certified: JLLS 300 VDC

## AMPERE RATINGS

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

Example part number (series & amperage): JLLS 100

## RECOMMENDED FUSE BLOCKS

LT300 series (for JLLN series fuses)

LT600 series (for JLLS series fuses)

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

- Extremely current limiting — Stops damaging short circuit current faster than any mechanical protective device.
- Fast-acting — Provides fast-acting overload protection to equipment such as variable speed drives, rectifiers and other equipment containing surge-sensitive components.

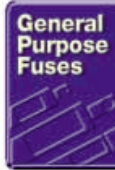
## LONGER EQUIPMENT LIFE

- Current limiting design greatly reduces damage to equipment caused by heating and magnetic effects of short circuit currents.

## ECONOMICAL

- Extremely current limiting design often permits use of readily available, less costly equipment.
- Used as input or output fuses for surge-sensitive components, such as variable speed drives and rectifiers, fast-acting POWR-T JLLN/JLLS fuses may prevent opening of expensive semiconductor fuses protecting individual components.

**NOTE:** JLLN Class T 300 volt fuses are UL listed for circuits not exceeding 300 volts to ground. However, since UL does not include testing 300 volt Class T fuses on 277/480 volt three-phase bolted faults, Littelfuse does not recommend using 300 volt Class T fuses where phase-to-phase voltage exceeds 300 volts.



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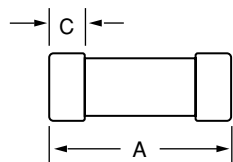


Fig. 1

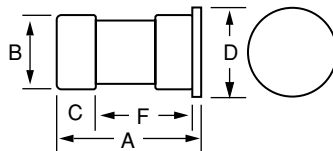


Fig. 2

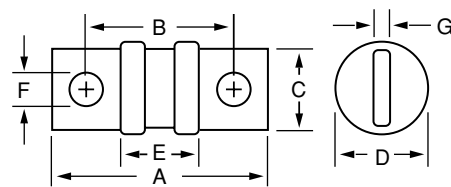


Fig. 3

AMPERES	REFER TO FIG. NO.	SERIES	DIMENSIONS IN INCHES (mm in parentheses)						
			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)	.67 (15.5)	.44 (11.2)

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