

JLS SERIES FUSES

600 Vac • Fast-Acting • 1-600 A



1
UL Class J Fuses



Description

JLS series fuses provide space saving, fast-acting overload and short-circuit protection for non-inductive loads. For applications where short-duration surges and spikes may cause nuisance fuse opening, consider the use of Littelfuse POWR-PRO® JTD or JTD_ID series time-delay fuses.

Applications

- General purpose circuits with little or no motor load.
- Resistive loads, such as resistance electric heat.
- Loads requiring fast-acting overload protection, such as equipment containing solid-state devices.

Specifications

Voltage Ratings	600 Vac or less
Ampere Range	1–600 A
Interrupting Ratings	200 kA rms symmetrical
Approvals	Standard 248-8, Class J UL Listed (File: E81895) CSA Certified (File: LR29862) Federal Specification WF-1814 (QPL-W-F-1814)
Material	1-60 A: Melamine body, Bronze cap (nickel plated) 70-400 A: Melamine body Brass cap 450-600 A: Melamine body Copper cap
Country of Origin	Mexico

Dimensions

Please refer to the Class J dimensions 23

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

VOLTAGE	SERIES	AMP	CATALOG NUMBER	ORDERING NUMBER
600	JLS	110	JLS110	QJLS110.X

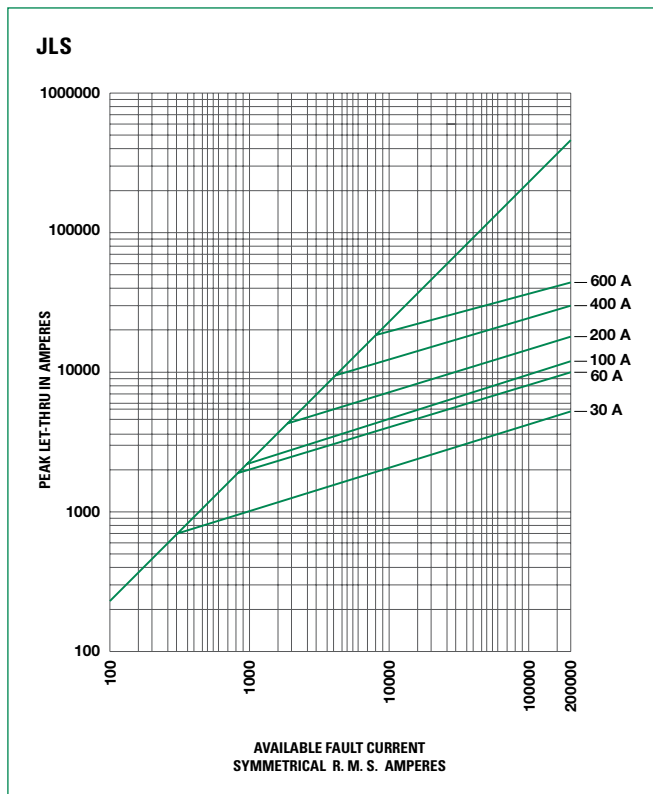
Web Resources

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

Recommended Fuse Holders

LJF60 Series	85
LFPSJ Series (% ₁₀ -60 A).....	111

Peak Let-Thru Curve



CLASS J DIMENSIONS AND CURRENT-LIMITING EFFECTS

Dimensions Inches (mm)

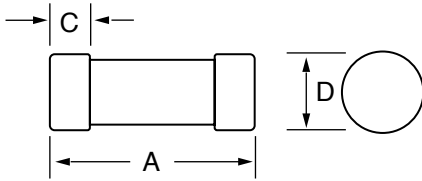


Fig. 1

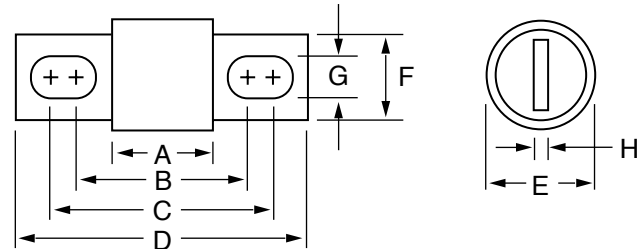


Fig. 2

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 (20.6)	—	—	—	—
35 – 60	1	2¾ (60.3)	—	5⁄8 (15.9)	1½ (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 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 ⁹ / ₃₂ (7.1)	3 ³ / ₁₆ (4.8)
225 – 400	2	3 ³ / ₈ (85.7)	5 ¹ / ₈ (130.2)	5 ⁵ / ₈ (136.5)	7 ¹ / ₈ (181.0)	2 (50.8)	1 ⁵ / ₈ (41.3)	1 ¹³ / 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 ¹⁷ / ₃₂ (13.5)	3 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