JTD_ID SERIES INDICATOR® POWR-PRO® FUSES

POWR-PRO® 600 Vac • Time Delay • 8/10-600 A

Ordering Information

AMPERE RATINGS								
8/10	2	3½	7	17½	45	100	225	500
1	2¼	4	8	20	50	110	250	600
1¼	2½	4½	9	25	60	125	300	
1½	2 8/10	5	10	30	70	150	350	
1 6/10	3	5 6/10	12	35	80	175	400	
1 8/10	3 2/10	6	15	40	90	200	450	

VOLTAGE	SERIES	AMP	INDICATION	CATALOG NUMBER	ORDERING NUMBER
600	JTD_ID	60	•	JTD60ID	0JTD060.TXID
600	JTD	60	–	JTD060	0JTD060.T

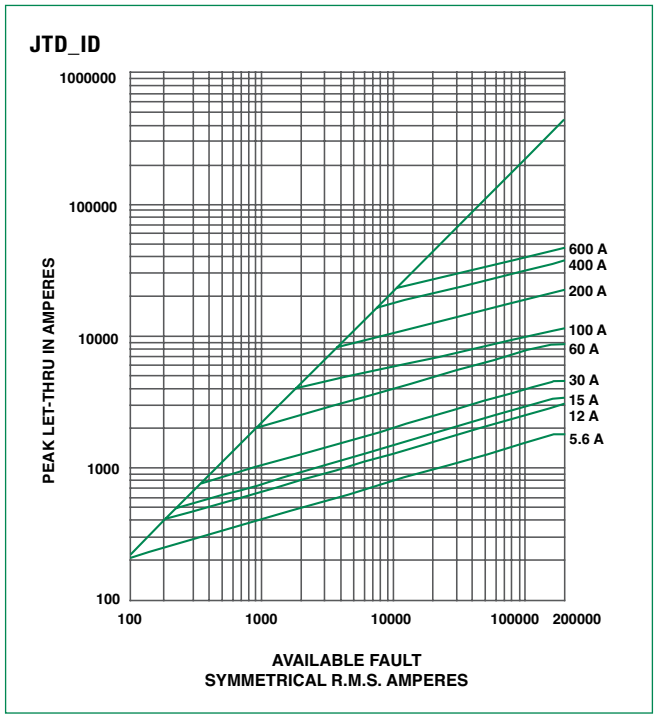
Web Resources

Download TC Curves, CAD drawings and other technical information: **littelfuse.com/jtd**

Recommended Fuse Holders

Dimensions

Peak Let-Thru Curve



Note: For more information, see Peak Let-Thru Table on pg. 23

Description

The Littelfuse POWR-PRO® JTD Class J fuse is available with visual blown fuse indication or in standdard non-indicating versions. The current-limiting time delay JTD_ID offers a patented design which reduces nuisance fuse openings.

Features/Benefits

- POWR-PRO® Performance
- Current-Limiting
- IEC Type 2 Protection
- Indication and non-indication versions available

Applications

- Fused combination motor controllers and control centers
- Transformer protection
- Protection for series rated molded case circuit-breaker panels
- General purpose circuits

Specifications

Voltage Ratings AC: 600 Vac or less
DC: 300 V (8/10–100 A)
500 V (110–600 A)

Ampere Range 8/10–600 A

Interrupting Rating AC: 200 kA rms symmetrical
300 kA rms symmetrical
DC: 20 kA

Material Body: Melamine
Caps: Nickel-plated Bronze (8/10–60 A)
Brass (70–200 A)
Brass Cap & Copper Blade (225–600 A)

Approvals AC: Standard 248-8, Class J
UL Listed (File: E81895)
CSA Certified (File: LR29862)
DC: Littelfuse self-certified

Material 8/10-60 A: Melamine body, Bronze cap (nickel plated)
70-200 A: Melamine body, Brass cap
225-600 A: Melamine body, Copper cap

Country of Origin Mexico

JLS SERIES FUSES

600 Vac • Fast-Acting • 1-600 A

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	0JLS110.X

Web Resources

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

Recommended Fuse Holders

LFJ60 Series 85
LFPSJ Series (8/10–60 A)..... 111

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.

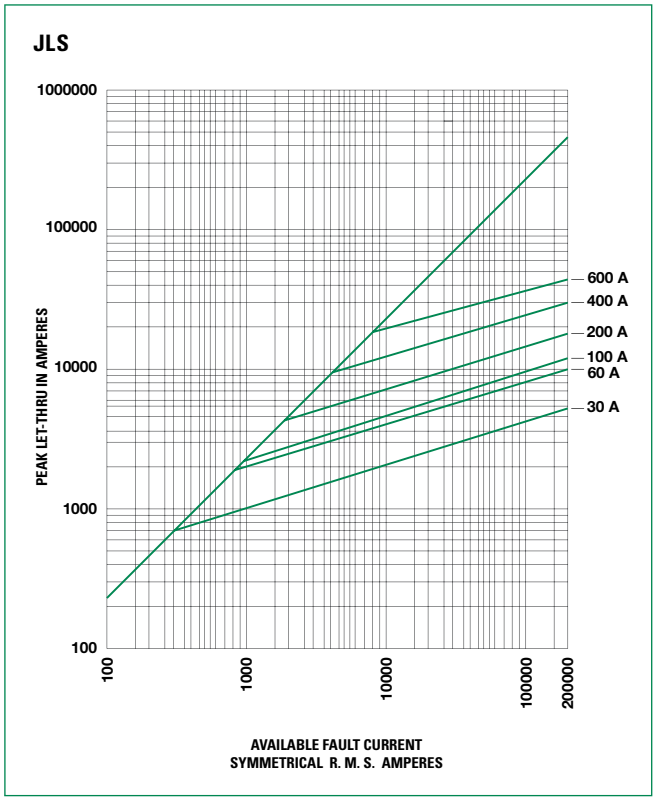
Specifications

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

Peak Let-Thru Curve



CLASS J DIMENSIONS AND CURRENT-LIMITING EFFECTS

Dimensions Inches (mm)

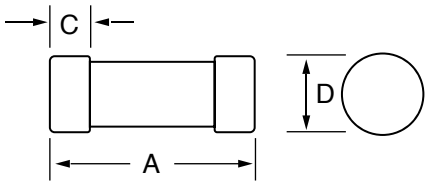


Fig. 1

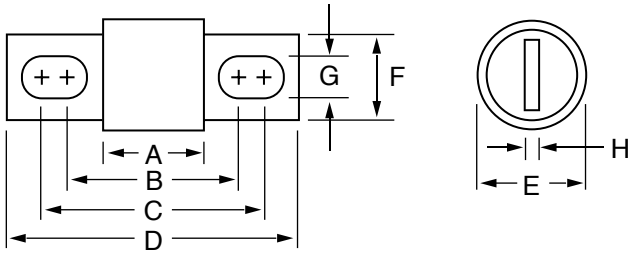


Fig. 2

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)	13/16 (20.6)	—	—	—	—
35 – 60	1	2⅜ (60.3)	—	⅝ (15.9)	1 1/16 (27.0)	—	—	—	—
70 – 100	2	2⅝ (66.7)	3 17/32 (89.7)	3 23/32 (94.5)	4⅝ (117.5)	1⅛ (28.6)*	¾ (19.1)	9/32 (7.1)	⅛ (3.2)
110 – 200	2	3 (76.2)	4 9/32 (108.7)	4 15/32 (113.5)	5¾ (146.1)	1½ (38.1)	1⅛ (28.6)	9/32 (7.1)	3/16 (4.8)
225 – 400	2	3⅜ (85.7)	5⅛ (130.2)	5⅜ (136.5)	7⅛ (181.0)	2 (50.8)	1⅝ (41.3)	13/32 (10.3)	¼ (6.4)
450 – 600	2	3¾ (95.3)	5 27/32 (148.4)	6 5/32 (156.4)	8 (203.2)	2½ (63.5)	2 (50.8)	17/32 (13.5)	⅜ (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