

JTD ID Series Indicator® POWR-PRO® Class J Fuses

600 VAC • Time Delay • 8/10 - 600 Amperes



The Littelfuse POWR-PRO JTD_ID Indicator Class J fuse provides visual blown fuse indication and maximum protection in a compact package. The compact Class J package was designed specifically for circuits where space is at a premium. The current-limiting time delay JTD_ID offers a patented, true dual-element design that is ideal for use in circuits with high, in-rush currents. The Superior performance characteristics of JTD_ID Indicator fuses reduce nuisance fuse opening, and the blown fuse indication reduces downtime while increasing safety.

Applications

Fused combination motor controllers to provide IEC Type 2 ("No Damage") motor branch circuit short-circuit and ground fault protection

Motor control centers

Transformer protection

Protection for UL Listed series rated molded case circuit breaker panels General purpose circuits — mains, feeders and branch circuits — especially when space is limited.

Features/Benefits

- Reduce downtime A glance at the indicating window of a JTD_ID Indicator fuse pinpoints open fuses immediately. If the indicating window is dark, the fuse has opened. It's that simple.
- Reduce nuisance opening Indicator fuses have superior time-delay and cycling characteristics which can lengthen fuse life and decrease needless opening.
- Reduce fuse inventory JTD_ID Indicator fuses have superior performance characteristics, which means they can be used on a variety of applications; therefore, decreasing fuse inventory.
- Reduce equipment damage Indicator fuses provide superior overload and short-circuit protection that can reduce equipment damage. Indicator fuses also provide IEC Type 2 "No Damage" protection to IEC and NEMA type motor starters.
- Reduce accidents The JTD_ID Indicator fuse improves safety
 by minimizing exposure to live circuits. Unlike other forms of blown
 fuse indication, once the indicating window darkens, it stays dark. It
 does not matter if the power is on or off or if the fuse is in a tool box.
 Other forms of indication require the power to remain on, which is a
 safety hazard for personnel.

Specifications

Voltage Ratings: AC: 600 Volts

DC: 300 Volts (8/10 – 100A) 500 Volts (110 – 600A)

Interrupting Ratings: AC: 200,000 amperes rms symmetrical 300,000 amperes rms symmetrical

(Littelfuse self-certified)

Ampere Range: Approvals:

8/10-600 amperes

AC: Standard 248-8, Class J ULListed (File No: E81895) CSA Certified (File No: LR29862)

DC: Littelfuse self-certified

8/10 - 100A: 300VDC self certified 110 - 600A: 500VDC self certified

Ampere Ratings

8/10	28/10	7	30	100	350
1	3	8	35	110	400
11/4	32/10	9	40	125	450
11/2	3½	10	45	150	500
1 6/10	4	12	50	175	600
18/10	41/2	15	60	200	
2	5	171/2	70	225	
21/4	5 ⁶ /10	20	80	250	
21/2	6	25	90	300	

Example part number (series & amperage): JTD 60 ID

Recommended Fuse Blocks

LJ600 series, LPSJ series

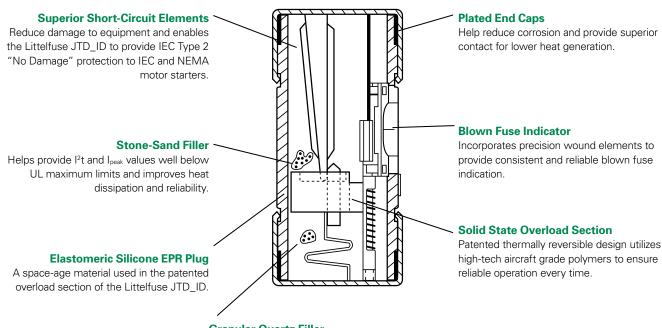
Refer to Blocks & Holders section of this catalog for additional information.



JTD ID Series Indicator® POWR-PRO® Class J Fuses

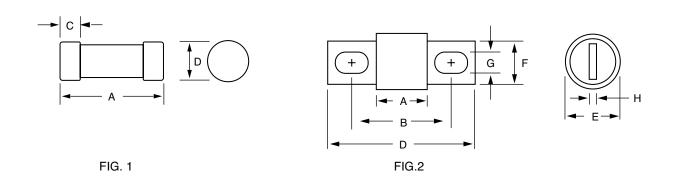
600 VAC • Time-Delay • 8/10 - 600 Amperes

An Inside Look . . .



Granular Quartz Filler

Assists in quenching the arc that occurs during overload conditions.



Amperes	Refer to Fig. No.	Dimensions in Inches (mm in parentheses)								
		Α	В	C	D	E	F	G	Н	
8/10-30	1	21/4 (57.2)	_	1/2 (12.7)	13/16 (20.6)	_	_	_	_	
35 – 60	1	23/8 (60.3)	_	⁵⁄₃ (15.9)	11/16 (27.0)	_	_	_	_	
70 – 100	2	25/8 (66.7)	35/8 (92.1)	_	45//s (117.5)	11//8 (28.6)	³ / ₄ (19.1)	9/32 (7.1)	1/8 (3.2)	
110 – 200	2	3 (76.2)	43/8 (111.1)	_	53/4 (146.1)	1 ⁵ / ₈ (41.3)	11/8 (28.6)	9/32 (7.1)	3/16 (4.8)	
225 – 400	2	33//8 (85.7)	51/4 (133.4)	_	71//8 (181.0)	21/8 (54.0)	1 ⁵ /8 (41.3)	¹³ / ₃₂ (10.3)	1/4 (6.4)	
450 – 600	2	33/4 (95.3)	6 (152.4)	_	8 (203.2)	25/8 (66.7)	2 (50.8)	¹⁷ / ₃₂ (13.5)	³ / ₈ (9.5)	



JTD_ID Series Indicator® POWR-PRO® Class J Fuses

600 VAC • Time-Delay • 8/10 - 600 Amperes

Current-Limiting Effects of JTD_ID (600V) fuses

Short Circuit	Apparent RMS Symmetrical for Various Fuse Ratings								
Current*	15A	30A	60A	100A	200A	400A	600A		
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

