

## CLASS J – JLS SERIES FUSES

600 VAC • Fast-Acting • 1-600 A





## **Description**

The UL Listed Class J JLS Series fuses provide space saving, fast-acting overload and short-circuit protection for vital industrial and power conversion applications.

Littelfuse's JLS Series fuses offer best in class current limitation that prevents equipment damage from overcurrent faults.

#### **Features and Benefits**

- Superior performance in a space saving package
- Reliable interruption of all overcurrents with protection up to 200kA
- Extremely current limiting
- Fast-acting protection for surge-sensitive devices and components
- Reduces heating and magnetic effects due to overcurrents, extending equipment life
- Economical and readily available

#### **Applications**

- Power conversion device protection
- Variable speed drives
- Rectifiers
- Resistive loads
- Solid-state devices

#### **Web Resources**

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

#### **Recommended Fuse Holders**

LFJ60 Series (%/10-60 A)

### **Specifications**

Voltage Ratings 600 VAC

**Interrupting Ratings** 200 kA rms symmetrical

Ampere Range 1–600 A

Approvals Standard 248-8, Class J UL Listed (File: E81895)

CSA Certified (File: LR29862) Federal Specification WF-1814

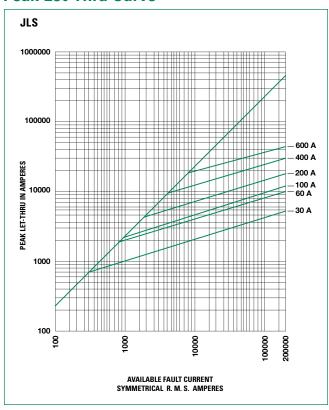
(QPL-W-F-1814)

## **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			

SERIES	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER		
JLS	110	JLS110	0JLS110.X		

#### **Peak Let-Thru Curve**



#### **Dimensions**

Please refer to the Class J dimensions on page 2



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## **Dimensions Inches (mm)**

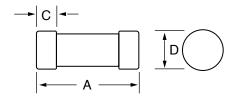
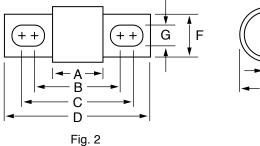


Fig. 1





## **Dimensions**

AMPERES	REFER TO	DIMENSIONS INCHES (mm)							
AIVIPENES	FIG. NO.	А	В	С	D	Е	F	G	Н
1 – 30	1	21/4 (57.2)	_	½ (12.7)	13/16 (20.6)	_	_	_	_
35 - 60	1	23/8 (60.3)	_	5⁄8 (15.9)	11/16 (27.0)	_	_	_	_
70 – 100	2	25/8 (66.7)	3 <sup>17</sup> / <sub>32</sub> (89.7)	3 <sup>23</sup> / <sub>32</sub> (94.5)	4 <sup>5</sup> / <sub>8</sub> (117.5)	1 (25.4)	<sup>3</sup> / <sub>4</sub> (19.1)	9/32 (7.1)	1/8 (3.2)
110 - 200	2	3 (76.2)	49/32 (108.7)	4 <sup>15</sup> / <sub>32</sub> (113.5)	53/4 (146.1)	1½ (38.1)	11/8 (28.6)	9/32 (7.1)	3/16 (4.8)
225 - 400	2	33/8 (85.7)	51/8 (130.2)	53/8 (136.5)	7½ (181.0)	2 (50.8)	15/8 (41.3)	<sup>13</sup> / <sub>32</sub> (10.3)	1/4 (6.4)
450 - 600	2	33/4 (95.3)	5 <sup>27</sup> / <sub>32</sub> (148.4)	65/32 (156.4)	8 (203.2)	2½ (63.5)	2 (50.8)	<sup>17</sup> / <sub>32</sub> (13.5)	3/8 (9.5)

## **Current-Limiting Effects of JLS (600 V) Fuses**

SHORT CIRCUIT	APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS							
CURRENT <sup>†</sup>	30 A	60 A	100 A	200 A	400 A	600 A		
5,000	750	1,450	1,650	2,600	4,450	5,000		
10,000	925	1,800	2,050	3,200	5,450	8,700		
15,000	1,050	2,025	2,350	3,600	6,200	9,650		
20,000	1,150	2,225	2,570	3,950	6,700	10,400		
25,000	1,225	2,375	2,750	4,200	7,200	11,000		
30,000	1,300	2,500	2,900	4,400	7,500	11,750		
35,000	1,350	2,600	3,050	4,650	7,900	12,250		
40,000	1,425	2,725	3,200	4,850	8,200	12,500		
50,000	1,525	2,900	3,450	5,200	8,750	13,500		
60,000	1,600	3,100	3,650	5,500	9,250	14,000		
80,000	1,775	3,375	4,000	6,000	10,000	15,000		
100,000	1,900	3,600	4,250	6,400	10,800	16,000		
150,000	2,125	4,050	4,900	7,300	12,150	18,000		
200,000	2,350	4,450	5,300	8,000	13,150	19,250		

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



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#### **Time Current Curve**

