

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
LFPSJ Series (1/10-60 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

CLASS J – JLS SERIES FUSES

Dimensions Inches (mm)



Fig. 1



Fig. 2

Dimensions

| AMPERES | REFER TO FIG. NO. | 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 | 2¾ (60.3) | — | 5/8 (15.9) | 1¼ (27.0) | — | — | — | — |
| 70 – 100 | 2 | 2½ (66.7) | 3 ¹¹ / ₃₂ (89.7) | 3 ²³ / ₃₂ (94.5) | 4 ⁵ / ₈ (117.5) | 1 (25.4) | ¾ (19.1) | 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) | 1 (28.6) | 9/32 (7.1) | 3/16 (4.8) |
| 225 – 400 | 2 | 3¾ (85.7) | 5 1/8 (130.2) | 5 ³ / ₈ (136.5) | 7 1/8 (181.0) | 2 (50.8) | 1 ⁵ / ₈ (41.3) | 1 ³ / 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) | 1 ⁷ / ₃₂ (13.5) | 3/8 (9.5) |

Current-Limiting Effects of JLS (600 V) Fuses

| SHORT CIRCUIT CURRENT† | APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS | | | | | |
|------------------------|---|-------|-------|-------|--------|--------|
| | 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

