

阅读申明

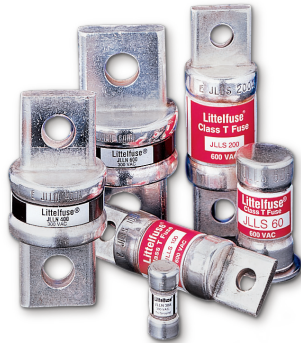
- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

CLASS T – JLLN / JLLS SERIES FUSES

300/600 VAC • Fast-Acting • 1-1200 A



Description

JLLN / JLLS fuses are less than 1/3 the size of comparable Class R fuses and are typically used for short circuit protection of drives and surge sensitive components. When rated in accordance with the NEC®, JLLN / JLLS fuses provide fast-acting overload and short circuit protection for non-inductive circuits and equipment.

Features/Benefits

- Extremely current-limiting
- Compact design
- 200 kA Interrupting Rating
- JLLN 35-60A available with PCB mounts

Applications

- Variable speed drive protection
- Power Conversion Devices (Inverters, Rectifiers, UPS)
- Power Supplies and Power Distribution Units
- Compact mains switches

Web Resources

Download TC Curves, CAD drawings and other technical information: littelfuse.com/jlln
littelfuse.com/jlls

Recommended Fuse Holders

LFT30 Series
LFT60 Series
LSCR Series for 70-800 A

Ordering Information

| AMPERE RATINGS | | | | | |
|----------------|----|-----|-----|------|------|
| 1 | 25 | 70 | 175 | 450 | 1100 |
| 2 | 30 | 80 | 200 | 500 | 1200 |
| 3 | 35 | 90 | 225 | 600 | |
| 6 | 40 | 100 | 250 | 700 | |
| 10 | 45 | 110 | 300 | 800 | |
| 15 | 50 | 125 | 350 | 900* | |
| 20 | 60 | 150 | 400 | 1000 | |

*JLLS only

Specifications

JLLN

Voltage Ratings

AC: 300 V
DC: 160 V (1 - 60 A)
125 V (70 - 1200 A)

Ampere Range

1 – 1200 A

Interrupting Ratings

AC: 200 kA rms symmetrical
DC: 50kA (1 - 30A)
20kA (35 - 1200A)

Approvals

AC: UL Standard 248-15, Class T
UL Listed (File: E81895): 1 – 1200 A
CSA Certified (File: LR29862): 1 – 600 A
DC: UL Listed (File: E81895): 1 – 1200 A
1-30 A: Melamine body, Bronze caps
35-1200 A: Melamine body, Copper caps
RoHS Compliant

Material

Environmental

JLLS

Voltage Ratings

AC: 600 V
DC: 300 V

Ampere Range

1 – 1200 A

Interrupting Ratings

AC: 200 kA rms symmetrical
DC: 20kA

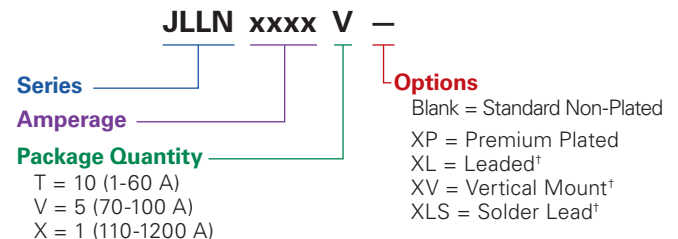
Approvals

AC: UL Standard 248-15, Class T
UL Listed (File: E81895): 1 – 1200 A
CSA Certified (File: LR29862): 1 – 600 A
DC: Littelfuse self-certified
1-30 A: Melamine body, Copper caps
35-60 A: Melamine body, Bronze caps
70-1200 A: Melamine body, Copper caps
RoHS Compliant

Material

Environmental

Part Numbering System



| SERIES | AMP | PACK SIZE | PLATING SUFFIX | MOUNT SUFFIX | CATALOG NUMBER | ORDERING NUMBER |
|--------|-----|-----------|----------------|--------------|----------------|-----------------|
| JLLS | 6 | T | – | – | JLLS006 | JLLS006.T |
| JLLN | 35 | T | – | XL† | JLLN035L | JLLN035.TXL |
| JLLN | 100 | V | XP | – | JLLN100P | JLLN100.VXP |

†Option is available for JLLN 35-60 A only. Premium plating is standard

CLASS T – JLLN / JLLS SERIES FUSES

Dimensions Inches (mm)

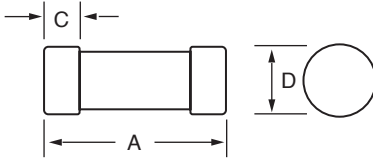


Fig. 1

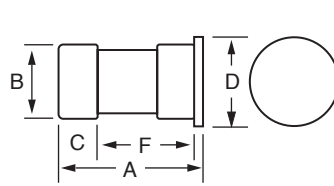


Fig. 2

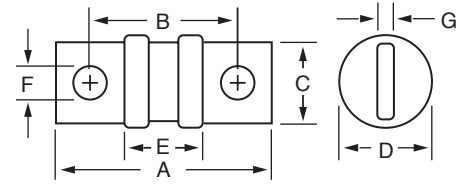
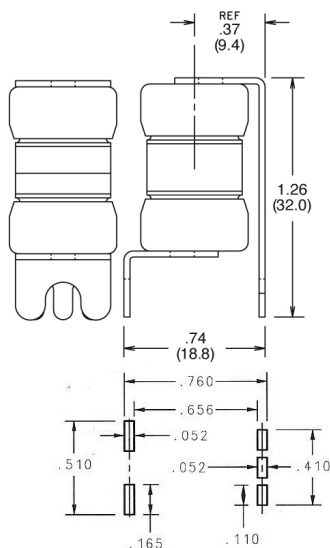


Fig. 3

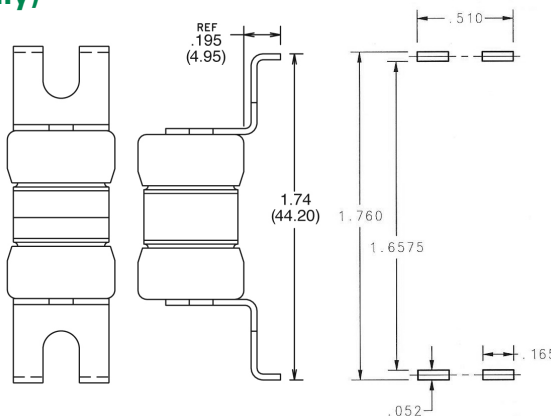
| AMPERES | REFER TO FIG. NO. | SERIES | DIMENSIONS INCHES (mm) | | | | | | |
|------------|-------------------|--------|------------------------|--------------|--------------|--------------|--------------|--------------|-------------|
| | | | A | B | C | D | E | F | G |
| 1 – 30 | 1 | JLLN | .875 (22.2) | — | .281 (7.1) | .406 (10.3) | — | — | — |
| | | JLLS | 1.500 (38.1) | — | .281 (7.1) | .562 (14.3) | — | — | — |
| 35 – 60 | 2 | JLLN | .875 (22.2) | — | .281 (7.1) | .562 (14.3) | — | — | — |
| | | JLLS | 1.562 (39.7) | .812 (20.6) | .406 (10.3) | .994 (25.2) | .062 (1.6) | 1.094 (27.8) | — |
| 70 – 100 | 3 | JLLN | 2.156 (54.8) | 1.562 (39.7) | .750 (19.1) | .812 (20.6) | .830 (21.1) | .281 (7.1) | .125 (3.2) |
| | | JLLS | 2.953 (75.0) | 2.352 (59.7) | .750 (19.1) | .828 (21.0) | 1.625 (41.3) | .281 (7.1) | .125 (3.2) |
| 110 – 200 | 3 | JLLN | 2.437 (61.9) | 1.687 (42.9) | .875 (22.2) | 1.062 (27.0) | .830 (21.1) | .343 (8.7) | .187 (4.8) |
| | | JLLS | 3.250 (82.6) | 2.507 (63.7) | .875 (22.2) | 1.078 (27.4) | 1.656 (42.1) | .343 (8.7) | .187 (4.8) |
| 225 – 400 | 3 | JLLN | 2.750 (69.9) | 1.843 (46.8) | 1.000 (25.4) | 1.312 (33.3) | .828 (21.0) | .406 (10.3) | .250 (6.4) |
| | | JLLS | 3.625 (92.1) | 2.718 (69.1) | 1.000 (25.4) | 1.593 (40.5) | 1.712 (43.5) | .406 (10.3) | .250 (6.4) |
| 450 – 600 | 3 | JLLN | 3.062 (77.8) | 2.031 (51.6) | 1.250 (31.8) | 1.593 (40.5) | .875 (22.2) | .484 (12.3) | .312 (7.9) |
| | | JLLS | 3.984 (101.2) | 2.953 (75.0) | 1.250 (31.8) | 2.062 (52.4) | 1.765 (44.8) | .484 (12.3) | .312 (7.9) |
| 700 – 800 | 3 | JLLN | 3.375 (85.7) | 2.218 (56.4) | 1.750 (44.5) | 2.062 (52.4) | .875 (22.2) | .546 (13.9) | .375 (9.5) |
| | | JLLS | 4.328 (109.9) | 3.171 (80.6) | 1.750 (44.5) | 2.500 (63.5) | 1.860 (47.2) | .546 (13.9) | .375 (9.5) |
| 900 – 1200 | 3 | JLLN | 4.000 (101.6) | 2.531 (64.3) | 2.000 (50.8) | 2.500 (63.5) | 1.033 (26.2) | .609 (15.5) | .437 (11.1) |
| | | JLLS | 5.271 (133.9) | 3.801 (96.5) | 2.000 (50.8) | 2.625 (66.7) | 2.303 (58.5) | .609 (15.5) | .437 (11.1) |

PCB Mounting Options (JLLN 35-60 A Only)

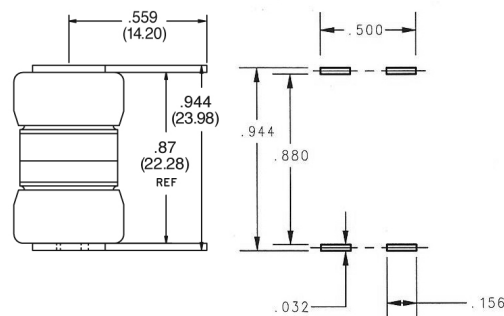
Vertical Mount JLLN-XV



Leaded JLLN-XL

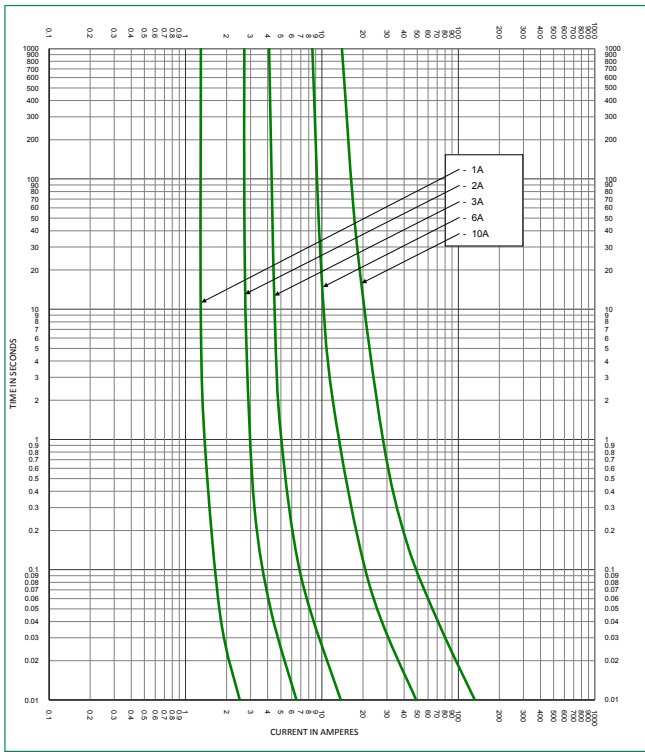


Solder JLLN-XLS

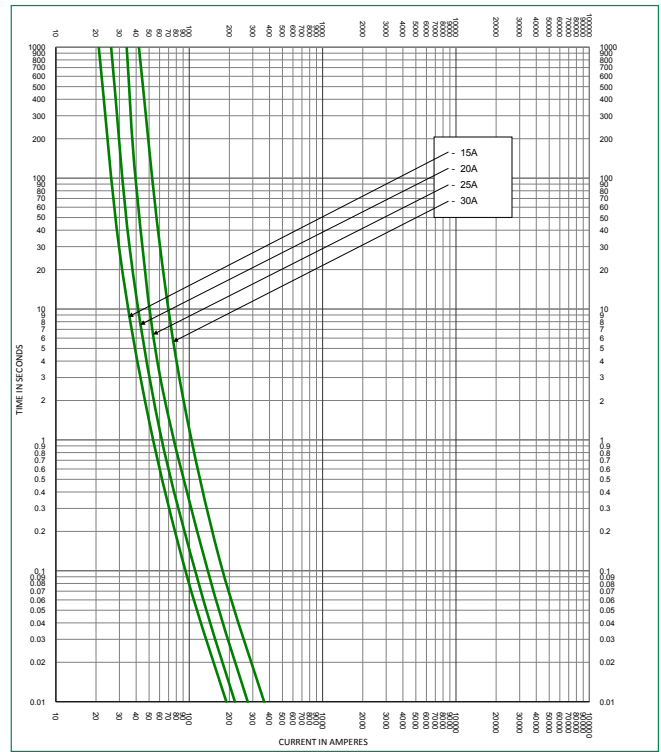


CLASS T – JLLN / JLLS SERIES FUSES

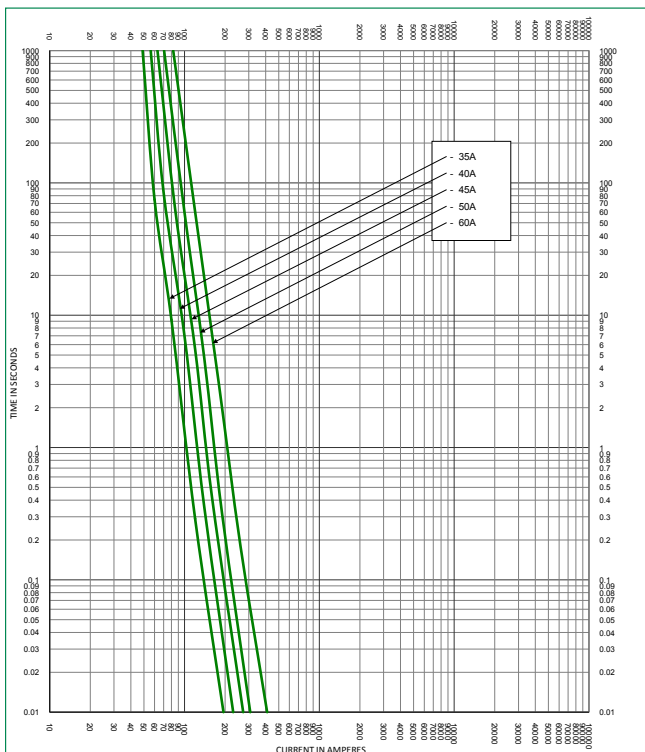
Time Current Curve JLLN (1-10A)



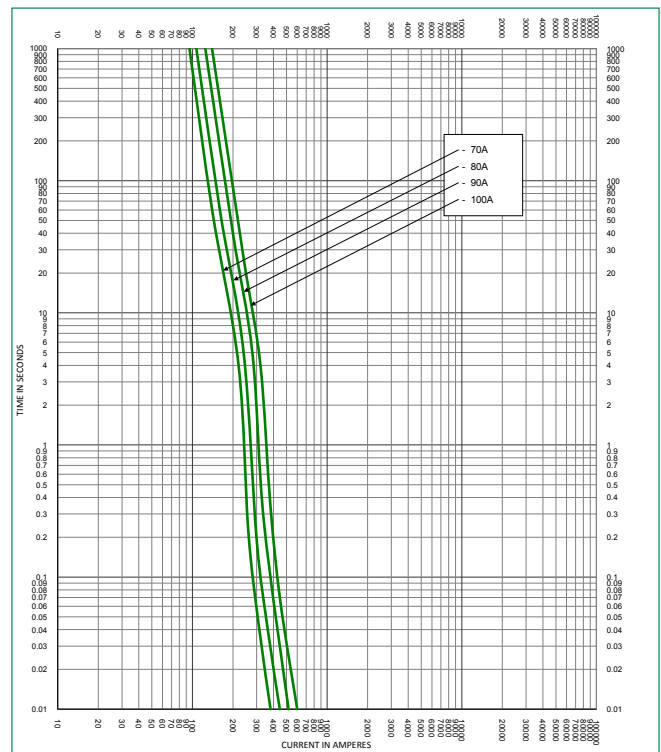
Time Current Curve JLLN (15-30A)



Time Current Curve JLLN (35-60A)

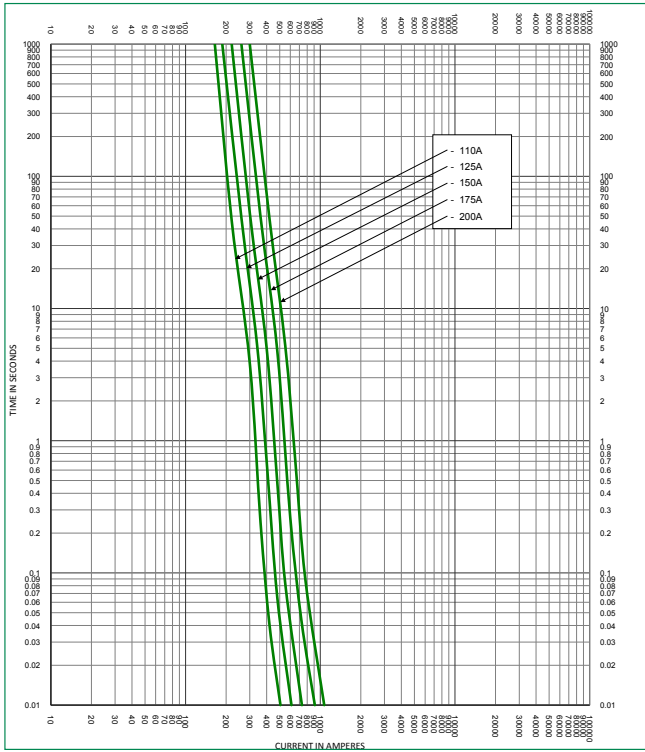


Time Current Curve JLLN (70-100A)

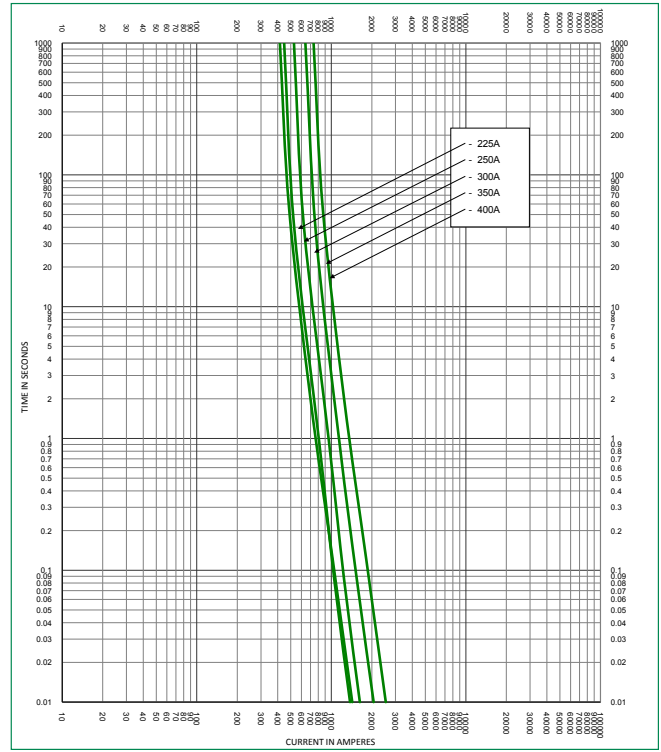


CLASS T – JLLN / JLLS SERIES FUSES

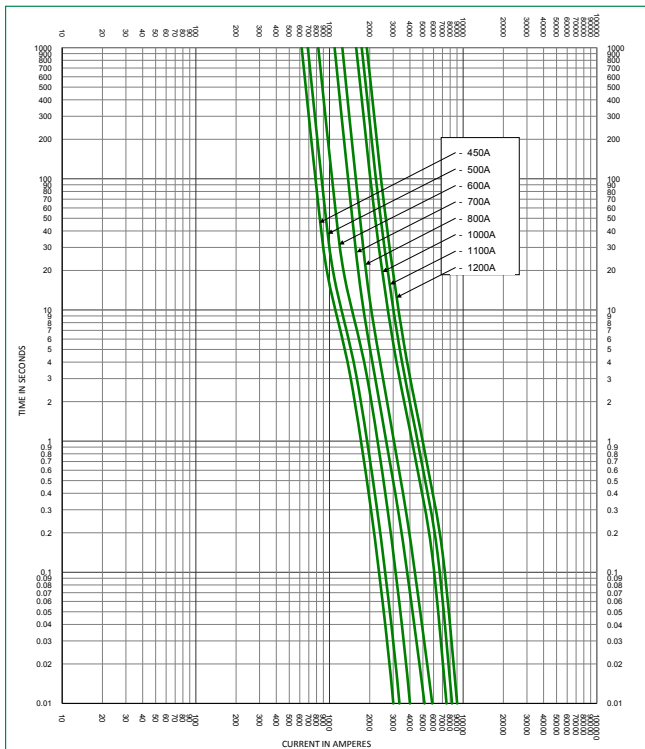
Time Current Curve JLLN (110-200A)



Time Current Curve JLLN (225-400A)

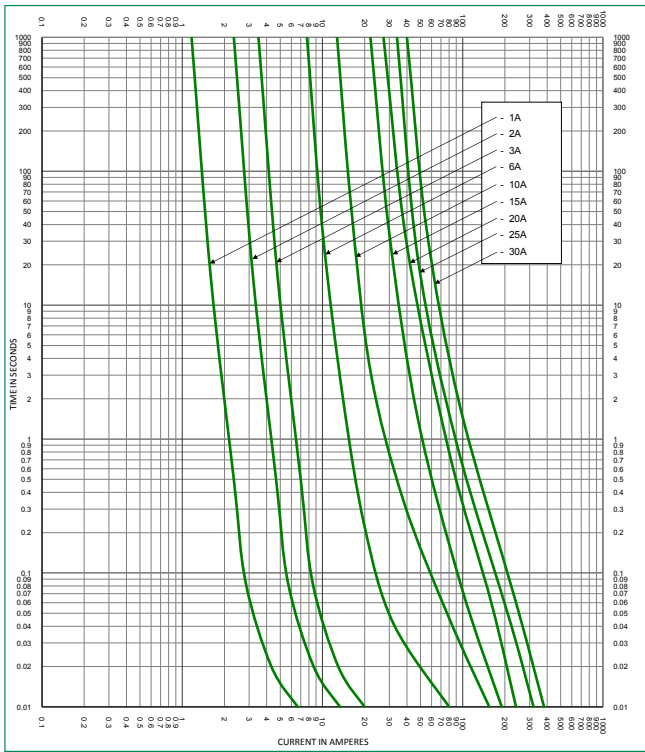


Time Current Curve JLLN (450-1200A)

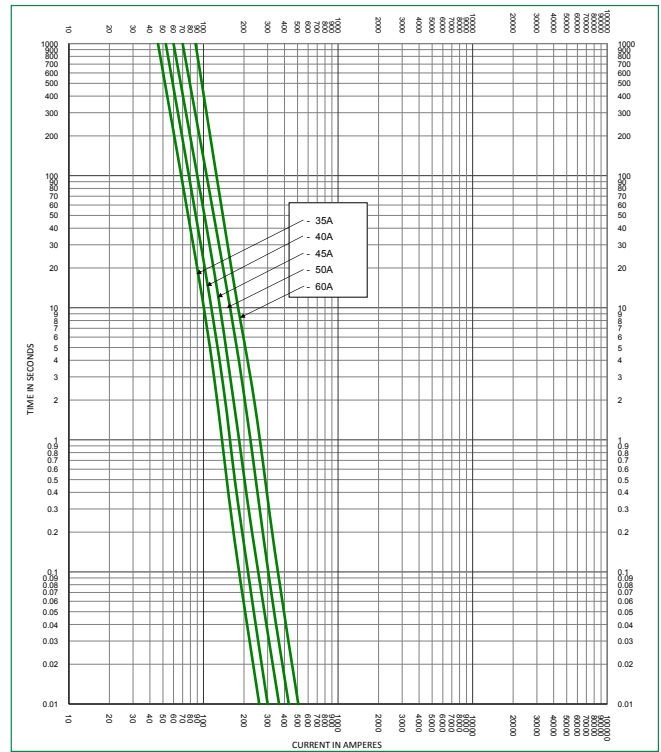


CLASS T – JLLN / JLLS SERIES FUSES

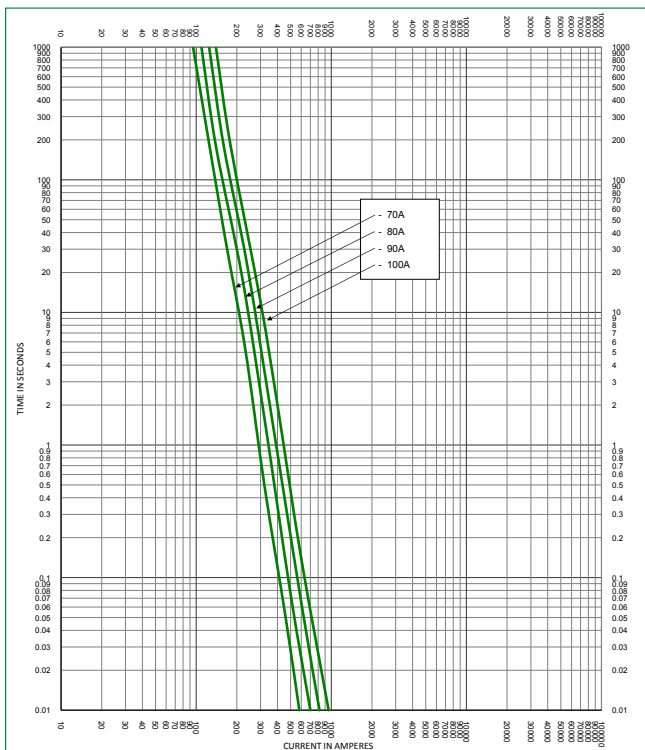
Time Current Curve JLLS (1-30A)



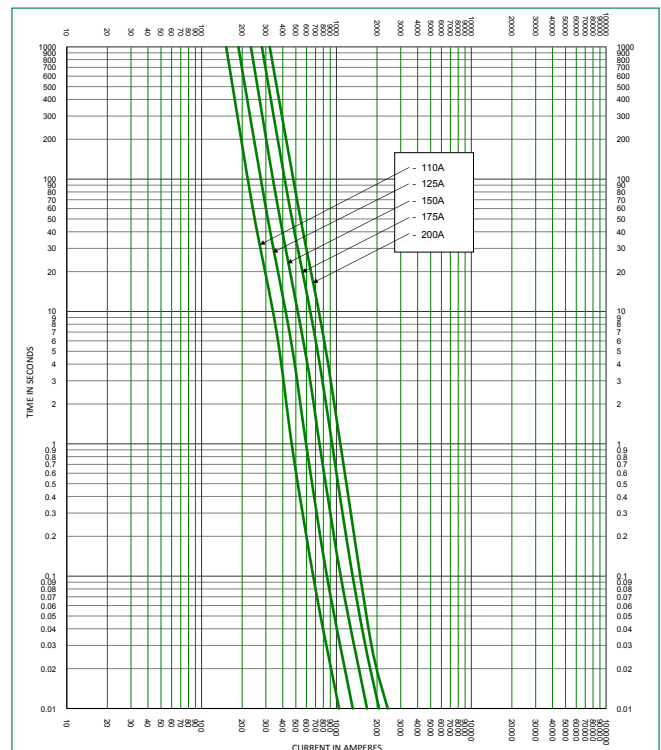
Time Current Curve JLLS (35-60A)



Time Current Curve JLLS (70-100A)

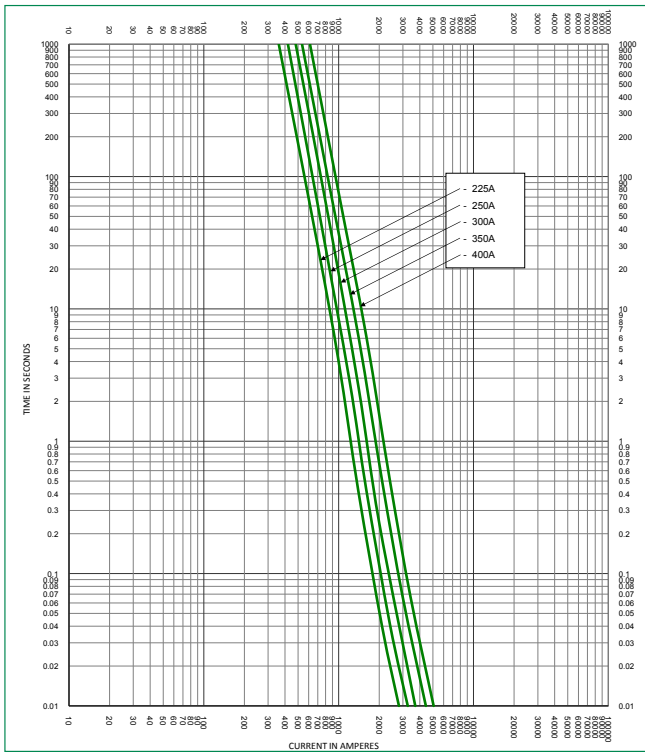


Time Current Curve JLLS (110-200A)

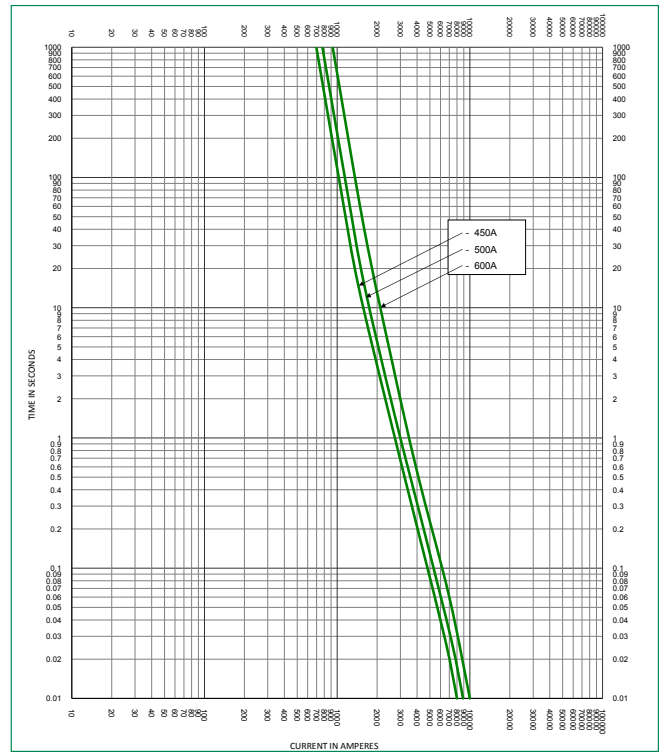


CLASS T – JLLN / JLLS SERIES FUSES

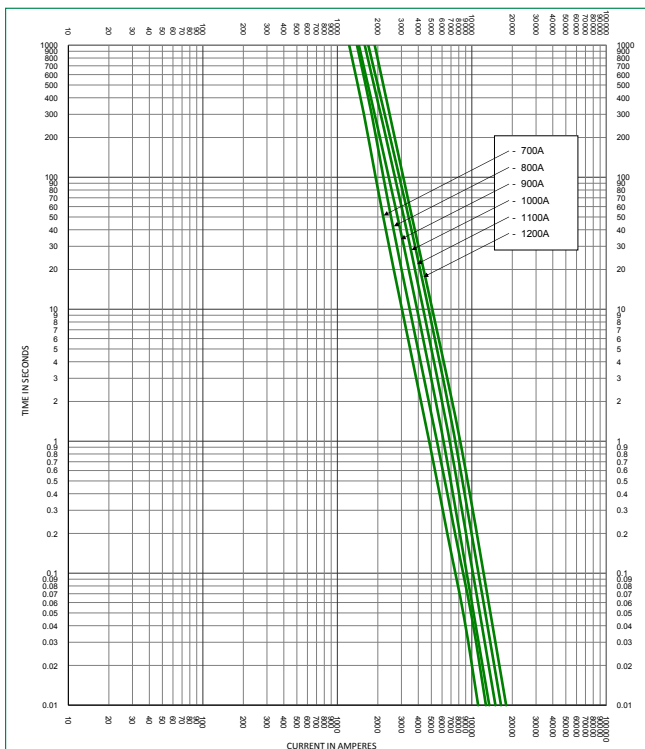
Time Current Curve JLLS (225-400A)



Time Current Curve JLLS (450-600A)

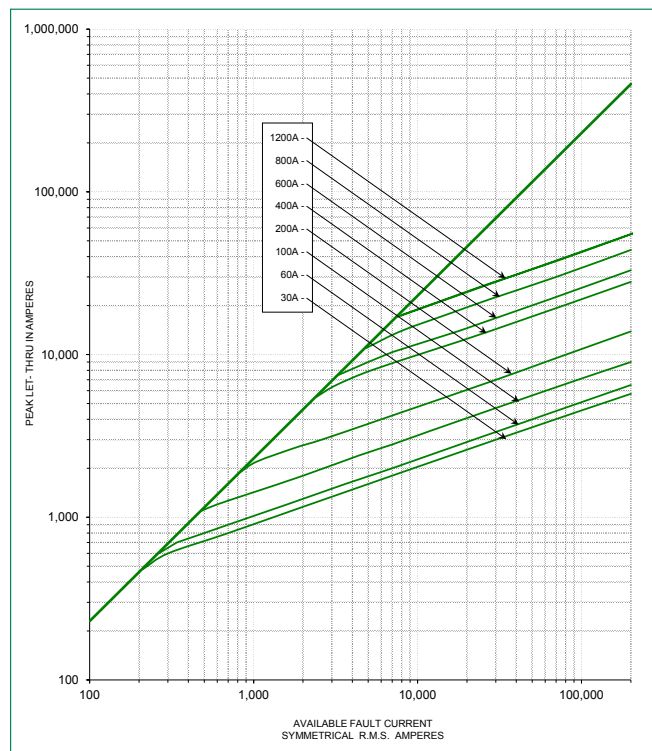


Time Current Curve JLLS (700-1200A)



CLASS T – JLLN / JLLS SERIES FUSES

Peak Let-Thru Curve and Current-Limiting Effects of JLLN (300 V) Fuses

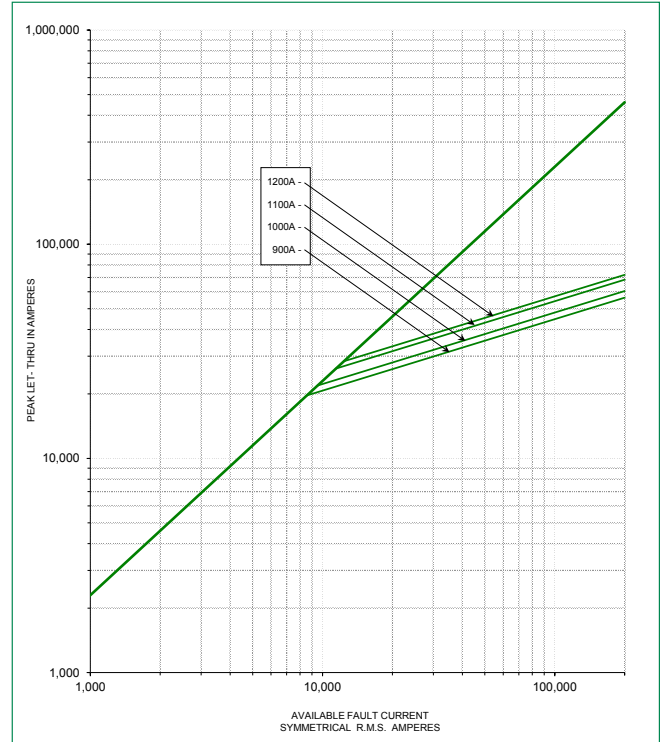
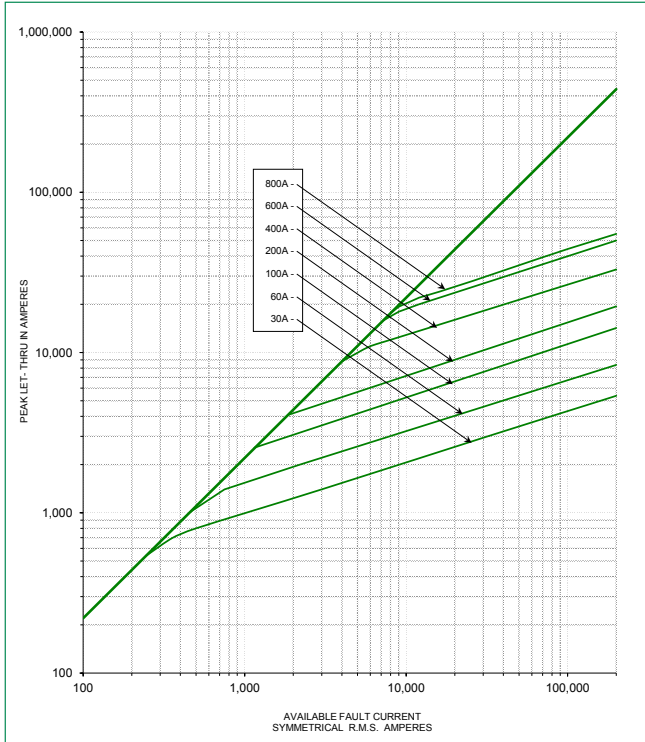


| SHORT CIRCUIT CURRENT* | APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS | | | | | | | |
|------------------------|---|-------|-------|-------|--------|--------|--------|--------|
| | 30 A | 60 A | 100 A | 200 A | 400 A | 600 A | 800 A | 1200 A |
| 5,000 | 700 | 775 | 1,100 | 1,650 | 3,500 | 4,000 | 5,000 | 5,000 |
| 10,000 | 900 | 1,000 | 1,400 | 2,100 | 4,400 | 5,100 | 6,750 | 8,250 |
| 15,000 | 1,000 | 1,100 | 1,600 | 2,400 | 5,000 | 5,900 | 7,750 | 10,000 |
| 20,000 | 1,100 | 1,250 | 1,800 | 2,700 | 5,500 | 6,500 | 8,750 | 11,000 |
| 25,000 | 1,230 | 1,300 | 1,950 | 2,900 | 6,000 | 7,000 | 9,500 | 12,000 |
| 30,000 | 1,300 | 1,475 | 2,050 | 3,100 | 6,400 | 7,500 | 10,000 | 12,500 |
| 35,000 | 1,330 | 1,575 | 2,150 | 3,300 | 6,750 | 7,750 | 10,500 | 13,500 |
| 40,000 | 1,430 | 1,600 | 2,300 | 3,500 | 7,000 | 8,000 | 11,000 | 14,000 |
| 50,000 | 1,500 | 1,750 | 2,400 | 3,700 | 7,500 | 8,750 | 12,000 | 15,000 |
| 60,000 | 1,700 | 1,900 | 2,700 | 4,000 | 8,000 | 9,500 | 12,500 | 16,000 |
| 80,000 | 1,850 | 2,100 | 2,800 | 4,400 | 9,000 | 10,500 | 14,000 | 17,500 |
| 100,000 | 2,000 | 2,250 | 3,150 | 4,800 | 9,750 | 11,500 | 15,000 | 18,500 |
| 150,000 | 2,300 | 2,600 | 3,600 | 5,500 | 11,000 | 13,000 | 17,500 | 22,000 |
| 200,000 | 2,600 | 2,800 | 3,900 | 6,000 | 12,000 | 14,500 | 19,500 | 24,000 |

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

CLASS T – JLLN / JLLS SERIES FUSES

Peak Let-Through Curve and Current-Limiting Effects of JLLS (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 | 800 A | 1200 A |
| 5,000 | 750 | 1,225 | 1,810 | 2,500 | 4,600 | 5,000 | 5,000 | 5,000 |
| 10,000 | 945 | 1,525 | 2,300 | 3,150 | 6,000 | 8,500 | 9,400 | 10,000 |
| 15,000 | 1,050 | 1,700 | 2,610 | 3,600 | 6,600 | 9,750 | 10,500 | 13,000 |
| 20,000 | 1,150 | 1,900 | 2,900 | 3,950 | 7,250 | 10,500 | 11,000 | 14,750 |
| 25,000 | 1,300 | 2,050 | 3,100 | 4,250 | 8,000 | 11,500 | 12,500 | 15,500 |
| 30,000 | 1,375 | 2,150 | 3,300 | 4,500 | 8,250 | 12,000 | 13,750 | 16,500 |
| 35,000 | 1,400 | 2,250 | 3,500 | 4,750 | 8,500 | 13,000 | 14,000 | 17,000 |
| 40,000 | 1,425 | 2,400 | 3,650 | 4,950 | 8,700 | 14,000 | 14,750 | 18,000 |
| 50,000 | 1,600 | 2,450 | 3,900 | 5,350 | 9,500 | 14,500 | 16,000 | 20,000 |
| 60,000 | 1,650 | 2,625 | 4,150 | 5,650 | 10,000 | 15,500 | 17,300 | 21,000 |
| 80,000 | 1,825 | 2,800 | 4,570 | 6,250 | 11,000 | 17,000 | 18,750 | 23,000 |
| 100,000 | 2,000 | 3,100 | 4,950 | 6,700 | 12,000 | 18,000 | 20,000 | 25,000 |
| 150,000 | 2,250 | 3,400 | 5,650 | 7,700 | 13,000 | 21,000 | 23,000 | 28,500 |
| 200,000 | 2,450 | 3,800 | 6,200 | 8,450 | 15,000 | 23,000 | 25,000 | 31,000 |

*Prospective RMS Symmetrical Amperes Short-Circuit Current
Note: Data Derived from Peak Let-Through Curves