# JJN Limitron™ 300Vac, 1-1200A, fast-acting Class T fuses

RoHS

## Catalog Symbol:

- JJN-(amp)

## Description:

Eaton's Bussmann™ series Limitron™ advanced protection Class T current -limiting, fast-acting fuses.

## Specifications:

### Ratings

- Volts
  - 300 Vac (1-10 A)
  - 300 Vac, 160 Vdc (15-600 A)
  - 300 Vac, 170 Vdc (700-1200 A)
- Amps — 1-1200 A
- IR
  - 200kA Vac RMS Sym.
  - 20kA Vdc (15-600 A)
  - 100kA Vdc (700-1200 A)

### Agency Information

- cULus Listed file No. JDDZ.E4273
  - UL 248-15 – Class T Fuses
  - CSA C22.2 No. 248.15 – Class T Fuses
- CE
- RoHS compliant

| Catalog numbers (amps) | | | |
|---|---|---|---|
| JJN-1 | JJN-35 | JJN-110 | JJN-400 |
| JJN-2 | JJN-40 | JJN-125 | JJN-450 |
| JJN-3 | JJN-45 | JJN-150 | JJN-500 |
| JJN-6 | JJN-50 | JJN-175 | JJN-600 |
| JJN-10 | JJN-60 | JJN-200 | JJN-700 |
| JJN-15 | JJN-70 | JJN-225 | JJN-800 |
| JJN-20 | JJN-80 | JJN-250 | JJN-1000 |
| JJN-25 | JJN-90 | JJN-300 | JJN-1200 |
| JJN-30 | JJN-100 | JJN-350 | |

### Carton quantity:

| Amp rating | Carton qty. |
|---|---|
| Up to 60 | 10 |
| 70–100 | 5 |
| 110–1200 | 1 |

### Features:

- Provides 10X better current limitation to help prevent equipment damage caused by short-circuit events.
- 200 kA interrupting rating complies with NEC® Section 110.9 for today's large capacity systems.
- Fast-acting fuse helps prevent equipment damage caused by short-circuit events.
- Small, space-saving fuses provide a high degree of current limitation on short-circuits for excellent component protection.
- Ideal for critical industrial or commercial applications that have specific current limitation requirements.

### Recommended fuse blocks*

| Fuse amps | 1-pole | 2-pole | 3-pole | 4-Pole |
|---|---|---|---|---|
| up to 30 | — | T30030-2_ | T30030-3_ | T30030-4_ |
| 35-60 | — | T30060-2_ | T30060-3_ | T30060-4_ |
| 70-100 | — | T30100-1_ | T30100-2_ | T30100-3_ |
| 110-200 | T30200-1_ | — | — | — |
| 200 | 1B0083 | — | — | — |
| 225-400 | T30400-1_ | — | — | — |
| 450- 600 | T30600-1_ | — | — | — |

* For additional information, see data sheet no. 1115.

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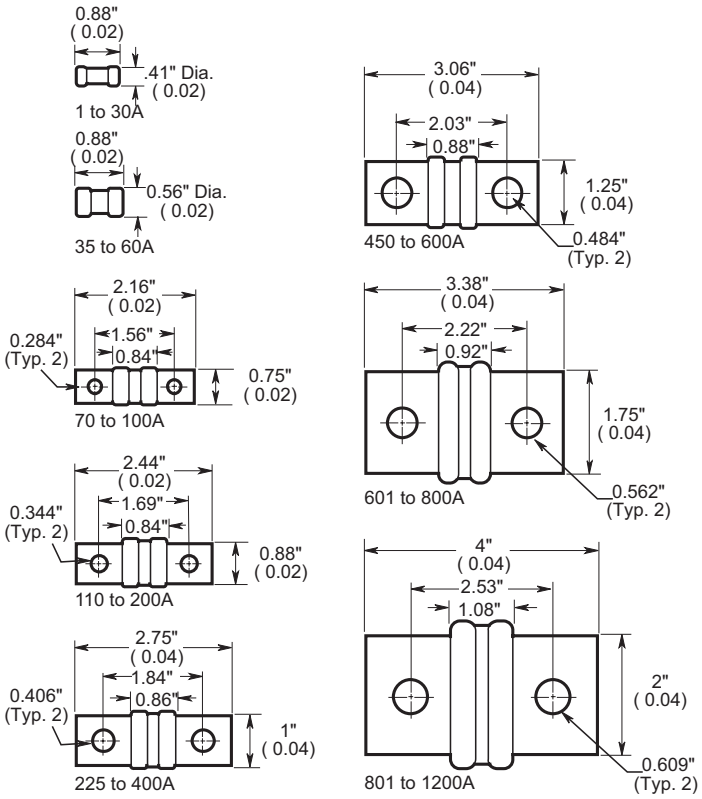
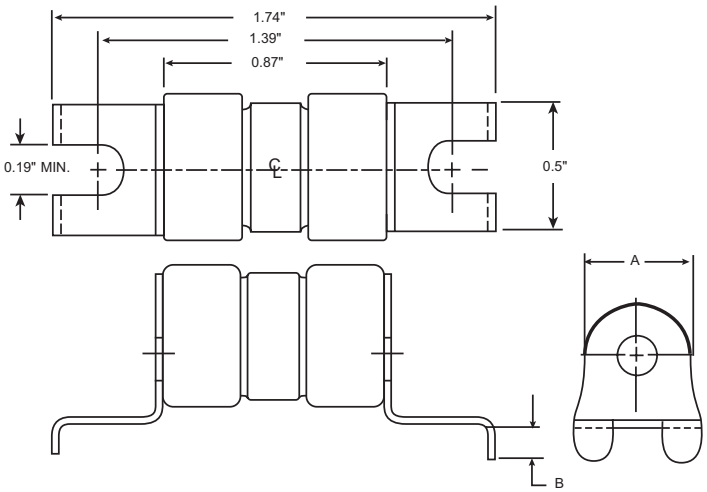
## Dimensions – in




## Custom designs

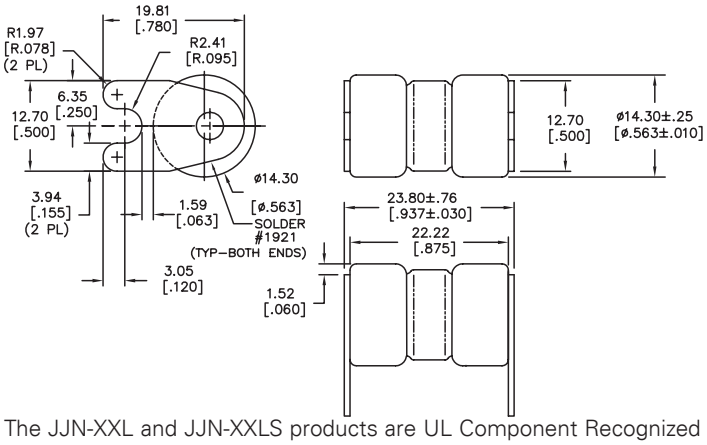
Printed circuit board versions available up to 60 amps. Consult your Bussmann series product representative details.

### JJN-XXL Dimensions - in



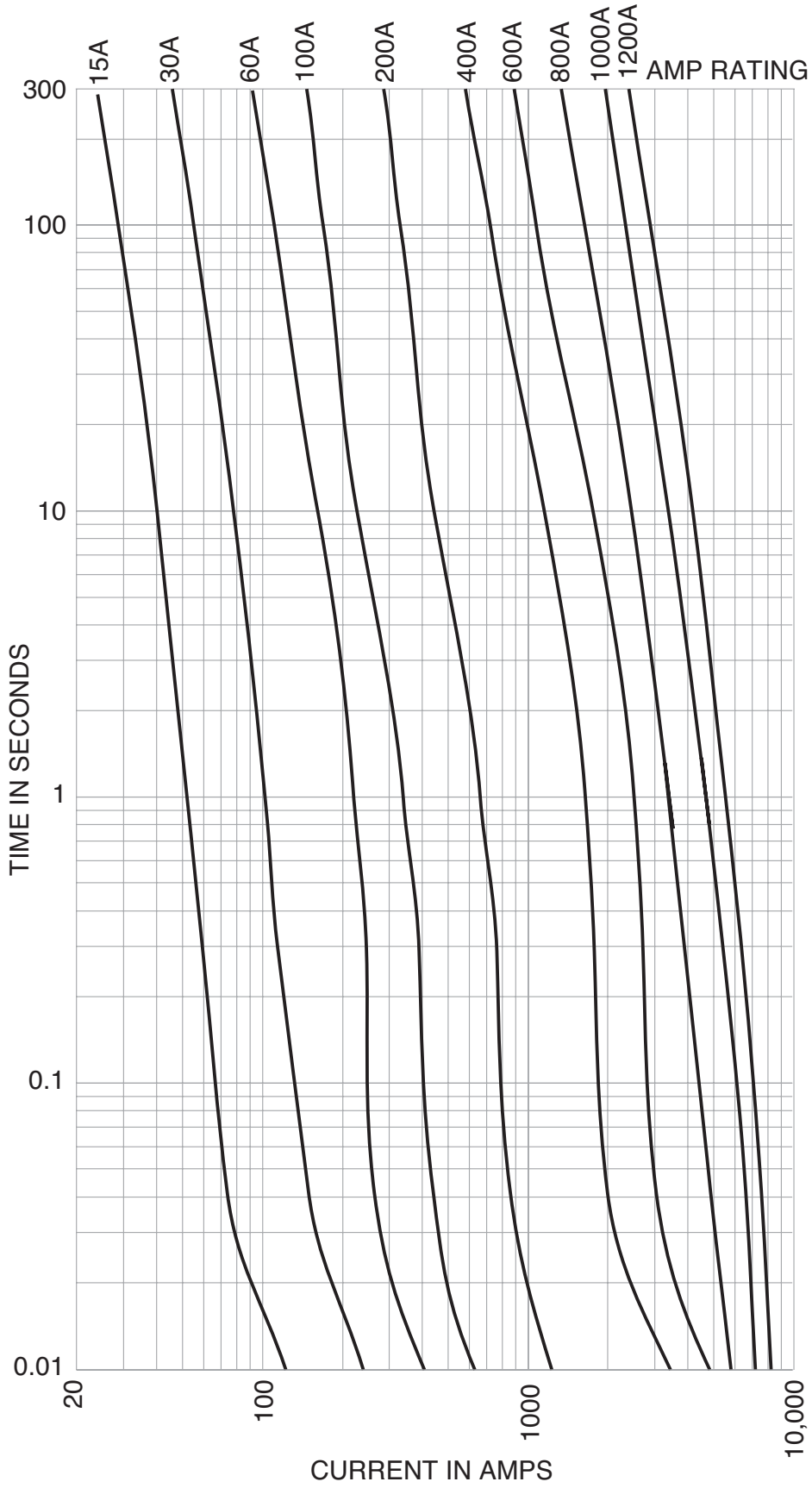

| Fuse amps/catalog number | A | B |
|---|---|---|
| JJN-(1-30)L | 0.406 | 0.125 |
| JJN-(35-60)L | 0.563 | 0.125 |
| JJN-(35-60)L-01 | 0.563 | 0.165 |

### JJN-XXLS Dimensions - in

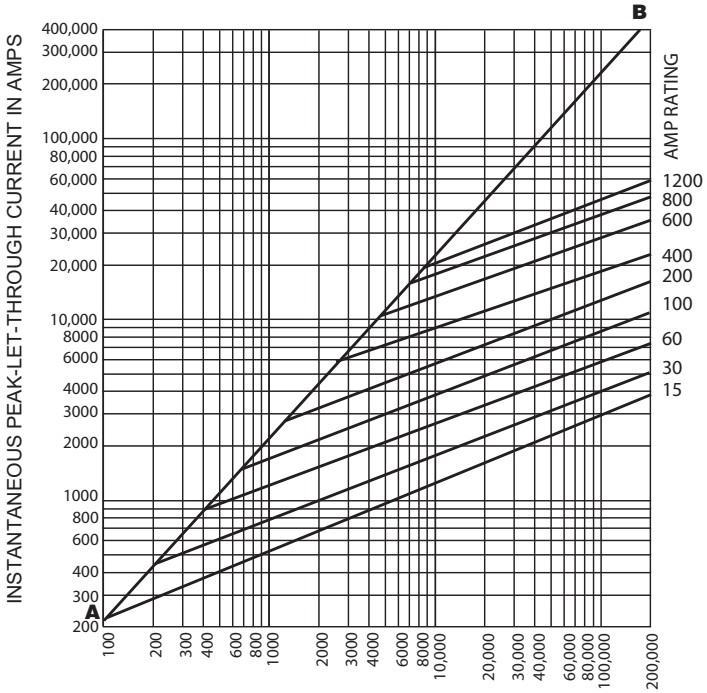



The JJN-XXL and JJN-XXLS products are UL Component Recognized under Guide JFHR2, File E56412. Contact your Bussmann series product representative for RoHS status.

**Time-current curves - average melt**



## Current-limitation curves




A-B = ASYMMETRICAL AVAILABLE PEAK (2.3 X SYM RMS AMPS)

## Current-limiting effects

| Prosp. S.C.C. | Let-through current (apparent RMS Sym. vs. fuse rating) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| — | 15 A | 30 A | 60 A | 100 A | 200 A | 400 A | 600 A | 800 A | 1200 A |
| 500 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 5000 | 1000 | 1000 | 1000 | 1000 | 2000 | 3000 | 5000 | 5000 | 5000 |
| 10,000 | 1000 | 1000 | 1000 | 2000 | 2000 | 4000 | 6000 | 7000 | 9000 |
| 15,000 | 1000 | 1000 | 1000 | 2000 | 3000 | 4000 | 6000 | 9000 | 10,000 |
| 20,000 | 1000 | 1000 | 1000 | 2000 | 3000 | 5000 | 7000 | 10,000 | 11,000 |
| 25,000 | 1000 | 1000 | 2000 | 2000 | 3000 | 5000 | 7000 | 10,000 | 12,000 |
| 30,000 | 1000 | 1000 | 2000 | 2000 | 3000 | 5000 | 8000 | 11,000 | 13,000 |
| 35,000 | 1000 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 11,000 | 13,000 |
| 40,000 | 1000 | 1000 | 2000 | 3000 | 4000 | 6000 | 9000 | 11,000 | 13,000 |
| 50,000 | 1000 | 1000 | 2000 | 3000 | 4000 | 7000 | 9000 | 12,000 | 15,000 |
| 60,000 | 1000 | 1000 | 2000 | 3000 | 4000 | 7000 | 10,000 | 13,000 | 16,000 |
| 70,000 | 1000 | 1000 | 2000 | 3000 | 5000 | 7000 | 10,000 | 14,000 | 17,000 |
| 80,000 | 1000 | 2000 | 2000 | 3000 | 5000 | 8000 | 11,000 | 15,000 | 17,000 |
| 90,000 | 1000 | 2000 | 2000 | 3000 | 6000 | 8000 | 11,000 | 15,000 | 18,000 |
| 100,000 | 1000 | 2000 | 2000 | 4000 | 6000 | 8000 | 12,000 | 16,000 | 19,000 |
| 150,000 | 1000 | 2000 | 3000 | 4000 | 6000 | 9000 | 13,000 | 17,000 | 22,000 |
| 200,000 | 2000 | 2000 | 3000 | 4000 | 7000 | 9000 | 15,000 | 19,000 | 23,000 |

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