

# 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**

- UL® Listed, Std. 248-15, Class T, Guide JDDZ, File E4273
- CSA® Certified, C22.2 No. 248.15, Class 1422-02, File 53787
- 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\***

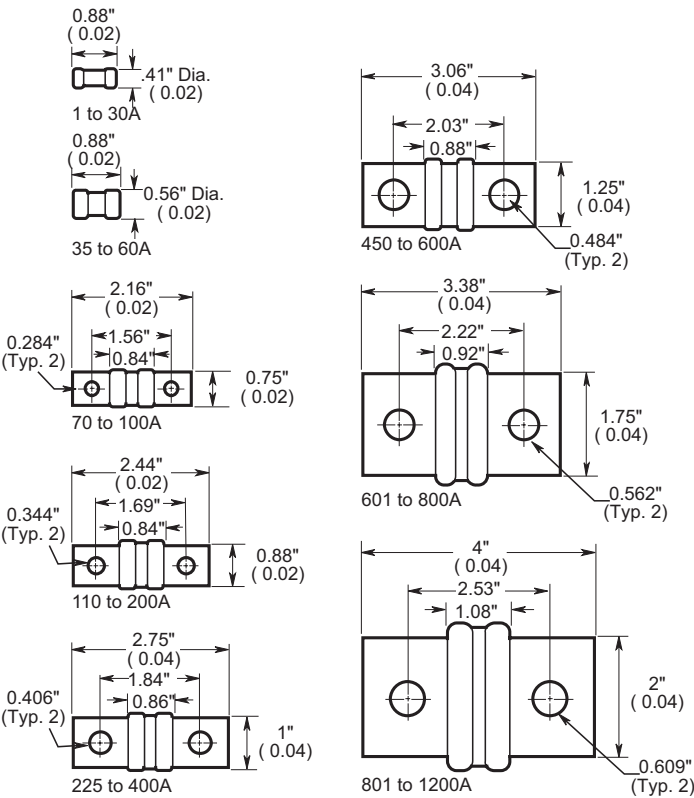
| Fuse amps | 1-pole    | 2-pole    | 3-pole    | 4-Pole    |
|-----------|-----------|-----------|-----------|-----------|
| up to 30  | —         | T30030-2_ | T30030-3_ | T30030-4_ |
| 35-60     | —         | T30060-2_ | T30060-3_ | T30060-4_ |
| 70-100    | —         | T30100-1_ | T30100-2_ | T30100-3_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

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

**EATON**

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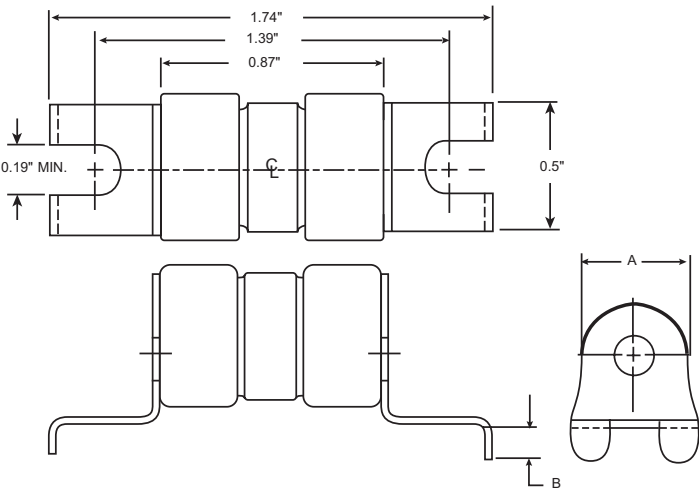
Dimensions – in



Custom designs

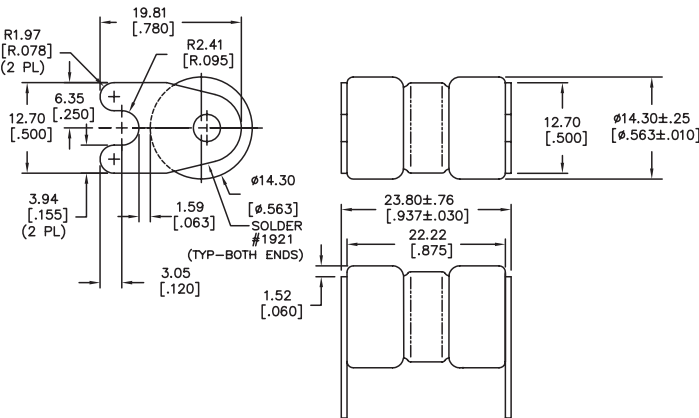
Printed circuit board versions available up to 60 amps. Consult your Bussmann series product representative details.

JJN-XXL Dimensions - in



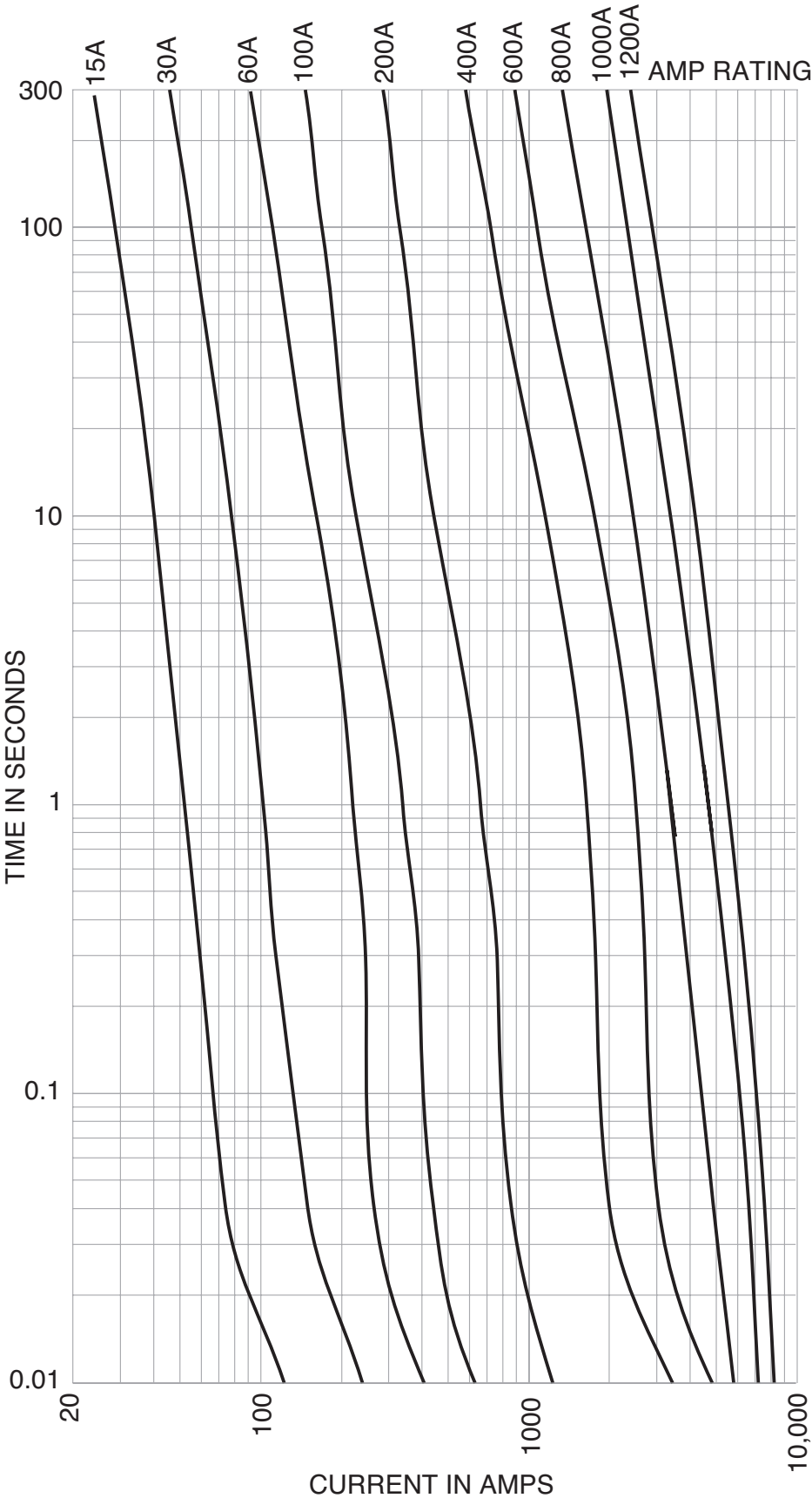
| Fuse amps/catalog number | A     | B     |
|--------------------------|-------|-------|
| JJN-(1-30)L              | 0.406 | 0.125 |
| JJN-(35-60)L             | 0.563 | 0.125 |
| JJN-(35-60)L-01          | 0.563 | 0.165 |

JJN-XXLS Dimensions - in

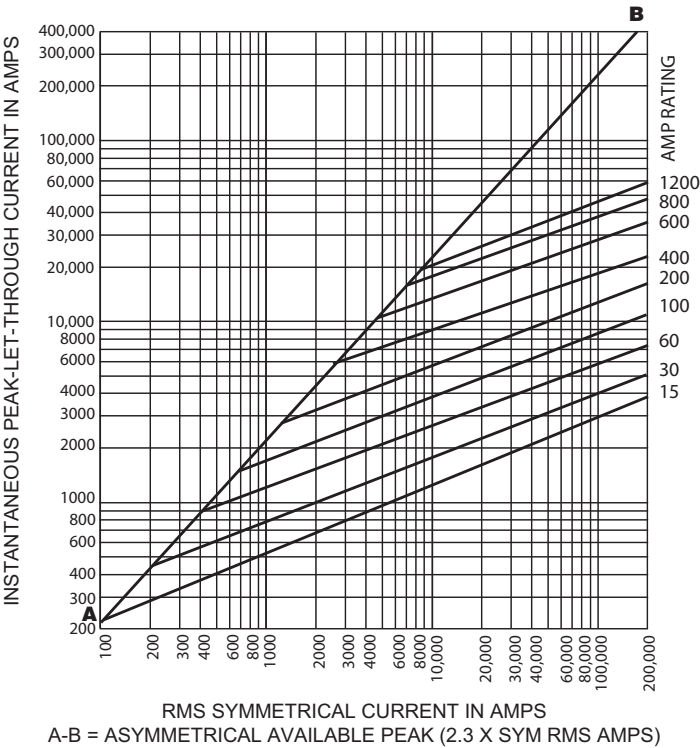


The JJN-XXL and JJN-XXLS products are UL Component Recognized under Guide JFHR2, File E56412. Contact your Bussmann series product representative for RoHS status.

Time-current curves - average melt



Current-limitation curves



Current-limiting effects

| Pros.   | 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   | 1000   |
| 5000    | 1000                                                           | 1000 | 1000 | 1000  | 1000  | 2000  | 3000   | 5000   | 5000   | 5000   |
| 10,000  | 1000                                                           | 1000 | 1000 | 1000  | 2000  | 2000  | 4000   | 6000   | 7000   | 9000   |
| 15,000  | 1000                                                           | 1000 | 1000 | 1000  | 2000  | 3000  | 4000   | 6000   | 9000   | 10,000 |
| 20,000  | 1000                                                           | 1000 | 1000 | 1000  | 2000  | 3000  | 5000   | 7000   | 10,000 | 11,000 |
| 25,000  | 1000                                                           | 1000 | 1000 | 2000  | 2000  | 3000  | 5000   | 7000   | 10,000 | 12,000 |
| 30,000  | 1000                                                           | 1000 | 1000 | 2000  | 2000  | 3000  | 5000   | 8000   | 11,000 | 13,000 |
| 35,000  | 1000                                                           | 1000 | 1000 | 2000  | 3000  | 4000  | 6000   | 8000   | 11,000 | 13,000 |
| 40,000  | 1000                                                           | 1000 | 1000 | 2000  | 3000  | 4000  | 6000   | 9000   | 11,000 | 13,000 |
| 50,000  | 1000                                                           | 1000 | 1000 | 2000  | 3000  | 4000  | 7000   | 9000   | 12,000 | 15,000 |
| 60,000  | 1000                                                           | 1000 | 1000 | 2000  | 3000  | 4000  | 7000   | 10,000 | 13,000 | 16,000 |
| 70,000  | 1000                                                           | 1000 | 1000 | 2000  | 3000  | 5000  | 7000   | 10,000 | 14,000 | 17,000 |
| 80,000  | 1000                                                           | 1000 | 2000 | 2000  | 3000  | 5000  | 8000   | 11,000 | 15,000 | 17,000 |
| 90,000  | 1000                                                           | 1000 | 2000 | 2000  | 3000  | 6000  | 8000   | 11,000 | 15,000 | 18,000 |
| 100,000 | 1000                                                           | 1000 | 2000 | 2000  | 4000  | 6000  | 8000   | 12,000 | 16,000 | 19,000 |
| 150,000 | 1000                                                           | 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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