Class J modular ferrule and knifeblade fuse blocks

Catalog symbol:
• JM60_

Description:
Bussmann® series Class J modular fuse blocks increase versatility, reduce labor and enhance safety for any panel or electrical system design. Available for the full Class J fuse amp range. These fuse blocks feature a standard fuse clip reinforcing spring for enhanced electrical contact between the block and fuse. All blocks are available as single-pole versions that snap together for the required number of poles, or as factory configured 2-, and 3-pole versions to meet stocking requirements.

The modular design permits reducing inventory, assembly time and labor with tool-less assembly of multiple poles at point of use.

Ferrule fuse blocks up to 60 amps save panel space with the smallest width dimension on the market and feature DIN-Rail and panel mount versatility so that one product can be used for multiple applications with lower inventory cost.

Knifeblade fuse blocks from 100 to 600 amps feature phase barriers between poles for additional safety with up to four mounting holes per pole increase installation flexibility. All knifeblade blocks meet UL creep and clearance requirements for Industrial Power Circuits (UL 508 and UL 845).

Additionally, the 200 to 600 amp blocks meet the higher UL creep and clearance requirements for Power Distribution Standards (UL 98, UL 67, UL 489, UL 891 and UL 869A).

All blocks have optional IP20 finger-safe high clarity, see-through covers for inspecting wire terminations or thermography measurements without removal. All covers enhance safety by featuring probe holes for easier, safer testing and a lockout/tagout capability. These covers also have optional open fuse indication to speed troubleshooting.

Easy circuit identification is available for 30 and 60 amp blocks and covers with universal marker labels.

Specifications:

Ratings
• Volts 600 V
• Amps up to 600 A
• Withstand 200 kA RMS Sym

Agency information
• Blocks:
  • UL® Listed E14853 — IZLT and IZLT7
  • CSA Certified 47235-6225-01
  • CE
  • RoHS Compliant
  • REACH declaration available upon request
• Covers:
  • UL Listed E58836 - JDVS
  • CSA Certified 47235-6225-01 (30 and 60A)
  • RoHS Compliant
  • REACH declaration available upon request
Poles
- 1-, 2-, 3-pole units factory assembled
- Single-pole units snap together to create desired number of poles

Flammability ratings
- Blocks: UL 94V0, self-extinguishing
- Covers: UL 94HB, self-extinguishing

Operating and storage temperature range
- Blocks: -40°C to +120°C
- Covers:
  - Non-Indicating: -40°C to +120°C
  - Indicating: -20°C to +90°C*
* Indication requires minimum 90V and closed circuit to illuminate.

Materials
- Base: Thermoplastic
- Terminals:
  - Tin-plated copper brass (30 and 60A)
  - Tin-plated aluminum (box lug)
- Covers: Thermoplastic

Conductors
- See catalog numbers for details and torque specifications.

Modular Class J ferrule and knifeblade fuse blocks

30 and 60 amp ferrule fuse blocks have DIN-rail and panel mounting capability, the modular designs allows blocks to snap together for the desired number of poles. They accept optional snap-on covers for IP20 finger-safe protection and feature a lockout/tagout to improve electrical safety.

On blocks rated from 100 to 600A, the optional covers can be completely removed for servicing or simply hinged open.

Class J modular ferrule and knifeblade fuse blocks

Optional see-through covers provide IP20 finger-safe protection and feature a lockout/tagout provision to improve electrical safety. These covers are also available with open fuse indicating version for faster troubleshooting. Order separately, one cover per block pole.

Standard dual lugs on 600A blocks and optional dual lugs on 400A blocks for easier wiring using two, smaller conductors.
Table 1: 30 and 60 amp block catalog numbers

<table>
<thead>
<tr>
<th>Fuse amp range</th>
<th>Poles</th>
<th>Terminal type</th>
<th>Box lug/slot screw</th>
<th>Box lug/hex screw</th>
<th>#10-32 Phil-slot screw</th>
<th>Pressure plate</th>
<th>Indicating**</th>
<th>Non-indicating</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 30</td>
<td>1</td>
<td>JM60030-1CR</td>
<td>JM60030-1CHR</td>
<td>JM60030-1SR</td>
<td>JM60030-1PR</td>
<td>CVRI-J-60030</td>
<td>CVR-J-60030</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60030-2CR</td>
<td>JM60030-2CHR</td>
<td>JM60030-2SR</td>
<td>JM60030-2PR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60030-3CR</td>
<td>JM60030-3CHR</td>
<td>JM60030-3SR</td>
<td>JM60030-3PR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 to 60</td>
<td>1</td>
<td>JM60060-1CR</td>
<td>JM60060-1CHR</td>
<td></td>
<td>CVRI-J-60060</td>
<td>CVR-J-60060</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60060-2CR</td>
<td>JM60060-2CHR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60060-3CR</td>
<td>JM60060-3CHR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Covers sold separately, one cover per pole.
** Open fuse indication requires 90 volts minimum and closed circuit to operate.

Table 2: 30 and 60 amp block terminals and conductors

<table>
<thead>
<tr>
<th>Terminal type</th>
<th>AWG type/range</th>
<th>AWG</th>
<th>Torque N-m (lb-in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box lug</td>
<td>75°C Cu 2-14, AL 2-8</td>
<td>2-3</td>
<td>5.6 (50)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4-6</td>
<td>5.1 (45)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</td>
<td>4.5 (40)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10-14</td>
<td>4.0 (35)</td>
</tr>
<tr>
<td>#10-32 Phil-slot screw</td>
<td>75/90°C Cu 10-18</td>
<td>10-18</td>
<td>2.3 (20)</td>
</tr>
<tr>
<td>Pressure plate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recommended Bussmann series fuses:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amps</th>
<th>Data sheet no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate protection Low-Peak LPJ time-delay fuses</td>
<td>up to 60</td>
<td>1006</td>
</tr>
<tr>
<td>Advanced protection Limitron JKS fast-acting fuses</td>
<td>up to 60</td>
<td>1026</td>
</tr>
<tr>
<td>High speed DFJ drive fuse</td>
<td>up to 60</td>
<td>1048</td>
</tr>
</tbody>
</table>

Recommended accessories for 30 and 60 amp blocks:

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN-Rail end stops</td>
<td>BRKT-ND</td>
</tr>
<tr>
<td>Marker labels</td>
<td>TM26CB</td>
</tr>
</tbody>
</table>

* No fuse derating necessary.
Dimensions; 30A Class J block - in (mm)

- **JM60030-1CR**
  - 87 [3.4] 12 [.5]
  - 46 [1.8]
  - 17 [.7]
  - 83 [3.3]

- **JM60030-2CR**
  - 29 [1.1]
  - 28 [1.1]
  - 56 [2.2]

- **JM60030-3CR**
  - 84 [3.3]

- **CVR-J-60030** (NON INDICATING)
  - 110 [4.3]

- **CVRI-J-60030** (WITH INDICATION)
  - Lockout - Tagout rings

- **JM60030-1CR** shown with cover

- Provision for marking label
Dimensions; 60A Class J block - in (mm)

PROVISION FOR MARKER LABEL

LOCKOUT - TAGOUT RINGS

CVR-J-60060 (NON INDICATING)
CVRI-J-60060 (WITH INDICATION)
Installing/removing covers

Install cover:
Position cover over block and push straight down until it snaps/clicks into place.

Open cover:
Using both outside handles, pull straight up.

For larger conductors, trim center tab at notch as shown in detail A.

Installing blocks on DIN-Rail

Place one edge of DIN-Rail in fuse block base, then rotate block down until it clicks into place.
### Table 6: Class J 100 to 600 amp knifeblade blocks and covers

<table>
<thead>
<tr>
<th>Fuse amp range</th>
<th>Poles</th>
<th>Catalog nos.</th>
<th>Covers*</th>
<th>Conductors***</th>
<th>Non-indicating</th>
<th>Indicating**</th>
<th>Solid and stranded</th>
<th>Fine stranded</th>
<th>Torque N•m (lb-in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70-100</td>
<td>1</td>
<td>JM60100-1CR</td>
<td>CVR-J-60100</td>
<td>—</td>
<td>Cu 1-3 AWG</td>
<td>6.2 (55)</td>
<td>1/0-3 AWG; (2) Cu 4-6 AWG</td>
<td>Cu 4-6 AWG</td>
<td>5.6 (50)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60100-2CR</td>
<td>CVR-J-60100</td>
<td>(2) Cu 4-6 AWG</td>
<td>Cu 8 AWG</td>
<td>5.1 (45)</td>
<td>2.4-6 AWG; (2) Cu 8 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60100-3CR</td>
<td>CVR-J-60100</td>
<td>8 AWG; (2) Cu 10-14 AWG</td>
<td>—</td>
<td>4.5 (40)</td>
<td>Cu 10-14 AWG; Al 10-12 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-200</td>
<td>1</td>
<td>JM60200-1CR</td>
<td>CVR-J-60200</td>
<td>—</td>
<td>Cu 2-6 AWG</td>
<td>42 (375)</td>
<td>250kcmil-1 AWG</td>
<td>Cu 2-6 AWG</td>
<td>31 (275)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60200-2CR</td>
<td>CVR-J-60200</td>
<td>(2) Cu 2-6 AWG</td>
<td>Cu 8 AWG</td>
<td>31 (275)</td>
<td>8 AWG; (2) Cu 10-14 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60200-3CR</td>
<td>CVR-J-60200</td>
<td>—</td>
<td>Cu 2-6 AWG</td>
<td>42 (375)</td>
<td>Cu 8 AWG; (2) Cu 10-14 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>225-400</td>
<td>1</td>
<td>JM60400-1CR</td>
<td>CVR-J-60400</td>
<td>600kcmil</td>
<td>Cu 2-6 AWG</td>
<td>57 (500)</td>
<td>(2) Cu 3/0 - 4 AWG</td>
<td>Cu 2-6 AWG</td>
<td>51 (450)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60400-2CR</td>
<td>CVR-J-60400</td>
<td>500kcmil-4 AWG</td>
<td>Cu 2-6 AWG</td>
<td>57 (500)</td>
<td>(2) CU 3/0 - 4 AWG</td>
<td></td>
<td></td>
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<td></td>
<td>3</td>
<td>JM60400-3CR</td>
<td>CVR-J-60400</td>
<td>N/A</td>
<td>Cu 2-6 AWG</td>
<td>57 (500)</td>
<td>(2) Al 3/0 - 4 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>JM60600-1CR</td>
<td>CVR-J-60600</td>
<td>2 (2) 500kcmil-4 AWG</td>
<td>N/A</td>
<td>51 (450)</td>
<td>(2) 500kcmil-4 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60600-2CR</td>
<td>CVR-J-60600</td>
<td>(2) 500kcmil-4 AWG</td>
<td>N/A</td>
<td>51 (450)</td>
<td>(2) 500kcmil-4 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60600-3CR</td>
<td>CVR-J-60600</td>
<td>(2) 500kcmil-4 AWG</td>
<td>N/A</td>
<td>51 (450)</td>
<td>(2) 500kcmil-4 AWG</td>
<td></td>
<td></td>
</tr>
</tbody>
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* Covers sold separately.
** Open fuse indication requires 90 volts minimum and closed circuit to operate.
*** Ratings for copper and aluminum conductors except where otherwise noted.

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<td>1048</td>
</tr>
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*No fuse derating necessary.*

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- **Finger-safe wire entry**: With cutout tabs for larger wires on all versions.
- **Vent slots**: Improve cooling.*
- **Toolless interlocking modular design**: For easy point-of-use assembly.
- **Standard dual lugs on 600A blocks and optional dual lugs on 400A blocks**: For easier wiring using two, smaller conductors.
- **Optional see-through, snap-on cover**: For easy visual inspection.
- **Optional open fuse indication**: Speeds troubleshooting.
- **Lockout/tagout feature**: Improves safety.
- **Standard phase barriers**: For additional safety.
- **Multiple mounting holes for each pole**: Provide flexible, secure mounting.
- **Finger grips on cover**: For easy removal.
- **Optional see-through, snap-on cover for easy visual inspection**: For easier testing without removing cover.
- **Toolless interlocking modular design**: For easy point-of-use assembly.
- **Standard dual lugs on 600A blocks and optional dual lugs on 400A blocks**: For easier wiring using two, smaller conductors.
- **Probe holes**: For easy testing without removing cover.
- **Finger-safe wire entry**: With cutout tabs for larger wires on all versions.
- **Vent slots**: Improve cooling.*
- **Finger grips on cover**: For easy removal.
- **Optional see-through, snap-on cover**: For easy visual inspection.
- **Optional open fuse indication**: Speeds troubleshooting.
- **Lockout/tagout feature**: Improves safety.
- **Standard phase barriers**: For additional safety.
- **Multiple mounting holes for each pole**: Provide flexible, secure mounting.
Class J modular ferrule and knifeblade fuse blocks

Dimensions; 100A Class J block - in (mm)

JM60100-1CR

JM60100-2CR

JM60100-3CR

REMOVE FOR WIRE LARGER THAN 6 AWG

CVR-J-60100-M (NON INDICATING)

CVRI-J-60100-M (WITH INDICATION)

ALLEN KEY 9/32" TYP

JM60100-1CR (SHOWN WITH COVER)
Class J modular ferrule and knifeblade fuse blocks

Dimensions; 200A Class J block - in (mm)

- **CVR-J-60200-M** (COVER NON-INDICATING)
- **CVR-J-60200-M** (COVER WITH INDICATION)

**REMOVE FOR WIRES LARGER THAN 2 AWG**
Dimensions; 400A Class J block - in (mm)

- **JM60400-1CR**
  - 67 TYP [2.6]
  - 44 TYP [1.7]
  - 125 TYP [4.9]
  - 201 TYP [7.9]
  - 27 TYP [1.1]

- **JM60400-2CR**
  - 91 TYP [3.6]
  - 88 TYP [3.5]
  - 90 TYP [3.5]
  - 41 TYP [1.6]

- **JM60400-1MW22**
  - 88 TYP [3.5]
  - 67 TYP [2.6]

- **JM60400-2MW22**
  - 104 TYP [4.1]
  - 88 TYP [3.5]

- **JM60400-3CR**
  - 268 TYP [10.5]
  - 265 TYP [10.4]
  - 216 TYP [8.5]
Class J modular ferrule and knifeblade fuse blocks

Effective August 2017

Dimensions; 600A Class J block - in (mm)

- **JM60600-1CR**: 123 TYP [4.8], 120 TYP [4.7], 71 TYP [2.8], 8 TYP [0.3], 52 TYP [2.1], 234 TYP [9.2], 100 TYP [3.9], 19 TYP [0.8]
- **JM60600-2CR**: 244 [9.6], 241 [9.5], 51 TYP [2.0], 363 [14.3], 365 [14.4]
- **JM60600-3CR**: 253 [10.0], 244 [9.6], 241 [9.5], 121 TYP [4.8], 73 TYP [2.9], 29 TYP [1.1]
- **CVR-JM60600** (COVER NON-INDICATING)
- **CVR-JM60600** (COVER WITH INDICATION)
- **REMOVE FOR WIRE LARGER THAN 250KCMIL**

- **JM60600-1CR (SHOWN WITH COVER)**
- **ALLEN KEY 3/8" TYP**
- **51 TYP [2.0]**
- **100 TYP [3.9]**
- **134 TYP [5.3]**
- **73 TYP [2.9]**
- **29 TYP [1.1]**
- **151 TYP [5.9]**
- **43 TYP [1.7]**
- **365 [14.4]**
- **363 [14.3]**
- **253 [10.0]**
- **123 TYP [4.8]**
- **120 TYP [4.7]**
- **71 TYP [2.8]**
- **8 TYP [0.3]**
- **51 TYP [2.0]**
- **JM60600-1CR (SHOWN WITH COVER)**
- **JM60600-2CR**
- **JM60600-3CR**

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