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
Technical Data 10488
Effective August 2017

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 allow 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.
Class J modular ferrule and knifeblade fuse blocks

Effective August 2017

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>3</td>
<td>JM60030-3CR</td>
<td>JM60030-3CHR</td>
<td>JM60030-3SR</td>
<td>JM60030-3PR</td>
<td>CVRI-J-60030</td>
<td>CVR-J-60030</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>CVRI-J-60060</td>
<td>CVR-J-60060</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60060-3CR</td>
<td>JM60060-3CHR</td>
<td></td>
<td>CVRI-J-60060</td>
<td>CVR-J-60060</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></td>
<td>BRKT-NDSCREW2</td>
</tr>
<tr>
<td>Marker labels</td>
<td>TM26CB</td>
</tr>
</tbody>
</table>

* No fuse derating necessary.
Class J modular ferrule and knifeblade fuse blocks

Dimensions; 30A Class J block - in (mm)

JM60030-1CR

PROVISION FOR MARKING LABEL

JM60030-2CR

JM60030-3CR

PROVISION FOR MARKING LABEL

CVR-J-60030 (NON INDICATING)
CVR-J-60030 (WITH INDICATION)

LOCKOUT - TAGOUT RINGS

JM60030-1CR SHOWN WITH COVER
Dimensions; 60A Class J block - in (mm)
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.

Trim tab here

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>Amps</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>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60100-2CR</td>
<td>CVRI-J-60100</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>3</td>
<td>JM60100-3CR</td>
<td>—</td>
<td>2-4-6 AWG; (2) Cu 8 AWG</td>
<td>Cu 8 AWG</td>
<td>5.1 (45)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>—</td>
<td>8 AWG; (2) Cu 10-14 AWG</td>
<td>—</td>
<td>4.5 (40)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cu 10-14 AWG; Al 10-12 AWG</td>
<td>—</td>
<td>4.0 (35)</td>
</tr>
<tr>
<td>110-200</td>
<td>1</td>
<td>JM60200-1CR</td>
<td>CVR-J-60200</td>
<td>250kcmil-1 AWG</td>
<td>Cu 3/0-1 AWG</td>
<td>42 (375)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60200-2CR</td>
<td>CVRI-J-60200</td>
<td>2-6 AWG; (2) Cu 2-6 AWG</td>
<td>Cu 2-6 AWG</td>
<td>31 (275)</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60200-3CR</td>
<td>—</td>
<td>6 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>50kcmil-4 AWG</td>
<td>57 (500)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60400-2CR</td>
<td>CVRI-J-60400</td>
<td>(2) Cu 3/0-4 AWG</td>
<td>N/A</td>
<td>57 (500)</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60400-3CR</td>
<td>JM60400-1MV22</td>
<td>(2) Al 3/0-4 AWG</td>
<td>—</td>
<td>34 (300)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JM60400-2MV22</td>
<td>CVRI-J-60400</td>
<td>(2) Al 3/0-4 AWG</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JM60400-3MV22</td>
<td>—</td>
<td>(2) Al 3/0-4 AWG</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>450-600</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>
</tr>
<tr>
<td></td>
<td>2</td>
<td>JM60600-2CR</td>
<td>CVRI-J-60600</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>JM60600-3CR</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

* 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>70 to 600</td>
<td>1048</td>
</tr>
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*No fuse derating necessary.
Dimensions; 100A Class J block - in (mm)
Dimensions; 200A Class J block - in (mm)
Class J modular ferrule and knifeblade fuse blocks

Dimensions; 400A Class J block - in (mm)
**Dimensions; 600A Class J block - in (mm)**

**JM60600-1CR**
- 234 TYP [9.2]
- 100 TYP [3.9]
- ALLEN KEY 3/8" TYP
- 8 TYP [0.3]
- 52 TYP [2.1]

**JM60600-2CR**
- 100 TYP [3.9]
- 120 TYP [4.7]
- 71 TYP [2.8]
- 8 TYP [0.3]
- 123 TYP [4.8]
- 244 [9.6]
- 241 [9.5]
- 51 TYP [2.0]

**JM60600-3CR**
- 365 [14.4]
- 363 [14.3]
- CVR-JM60600 (COVER NON-INDICATING)
- CVR-JM60600 (COVER WITH INDICATION)

**JM60600-1CR (SHOWN WITH COVER)**
- REMOVE FOR WIRE LARGER THAN 250KCMI

**CVR-JM60600-3CR (SHOWN WITH COVER)**
- 253 [10.0]
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