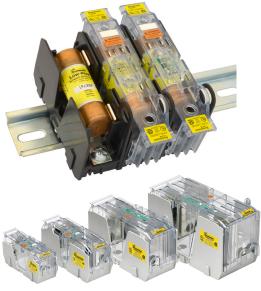
Effective October 2019 Supersedes August 2017

# BUSSMANN SERIES

# Class J modular ferrule and knifeblade fuse blocks





## **Catalog symbol:**

• JM60\_

#### **Description:**

Bussmann<sup>®</sup> 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<sup>®</sup> 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 October 2019

#### 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

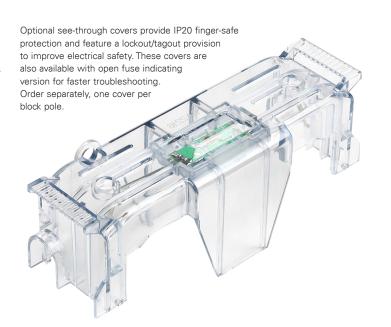


30 and 60 amp ferrule fuse blocks have DIN-rail and panel mounting capability, the modular designs allows blocks toand snap together for the desired number of poles. They accept optional snap-on covers for IP20 finger-safe protection and feature a lockout/tagout to improve electrical safety.



100 to 600 amp knifeblade fuse blocks are panel mount with multiple holes for installation flexibility and the modular design 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 provision to improve electrical safety.

Eaton.com/bussmannseries



Class J modular ferrule and knifeblade fuse blocks



Standard dual lugs on 600A blocks and optional dual lugs on 400A blocks for easier wiring using two, smaller conductors.



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

#### Table 1: 30 and 60 amp block catalog numbers

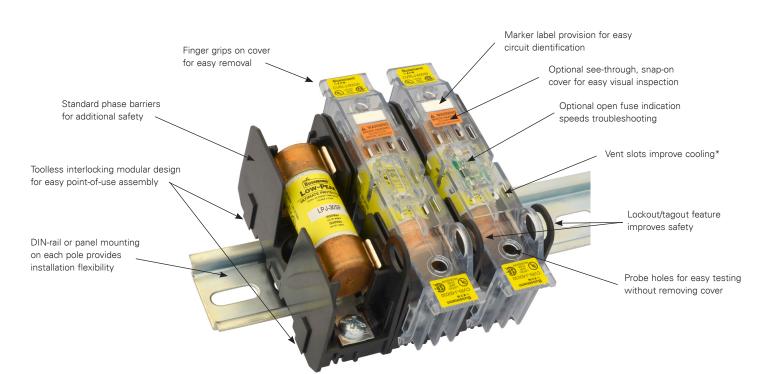
Fuse		Terminal type				<b>Optional covers*</b>	
amp range	Poles	Box lug/slot screw	Box lug/hex screw	#10-32 Phil-slot screw	Pressure plate	Indicating**	Non-indicating
up to 30	1	JM60030-1CR	JM60030-1CHR	JM60030-1SR	JM60030-1PR		
	2	JM60030-2CR	JM60030-2CHR	JM60030-2SR	JM60030-2PR		CVR-J-60030
	3	JM60030-3CR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

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

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



# Technical Data 10488 Effective October 2019

#### **Recommended Bussmann series fuses:**

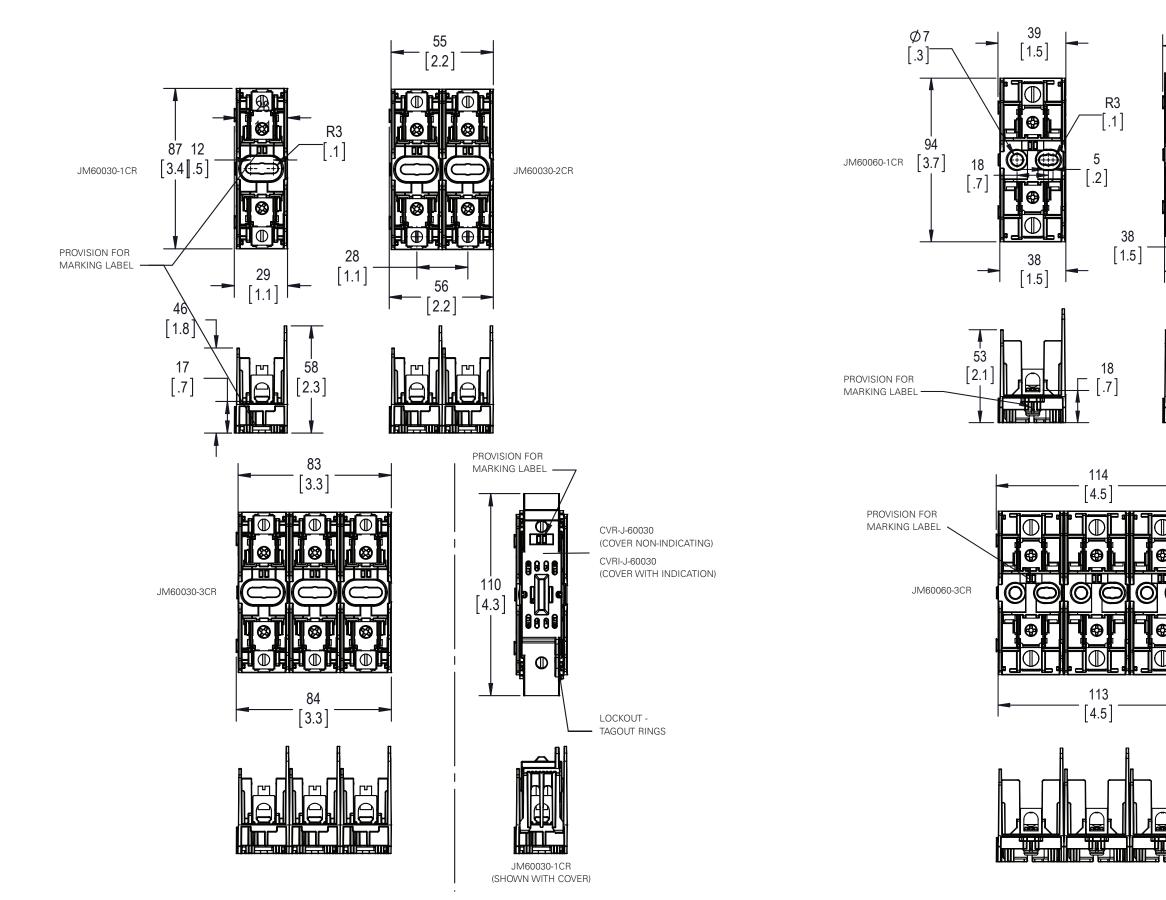
Description	Amps	Data sheet no.
Ultimate protection Low-Peak LPJ time- delay fuses	up to 60	1006
Advanced protection Limitron JKS fast- acting fuses	up to 60	1026
High speed DFJ drive fuse	up to 60	1048

#### Recommended accessories for 30 and 60 amp blocks:

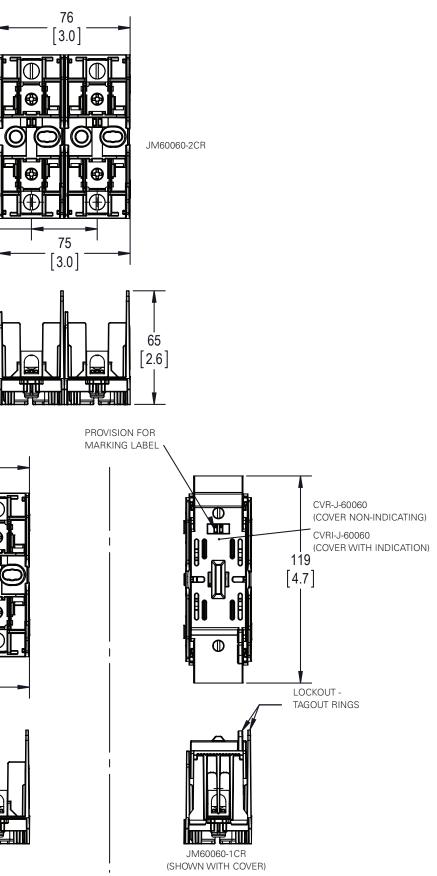
Description	Catalog no.
DIN Deil and stone	BRKT-ND
DIN-Rail end stops	BRKT-NDSCREW2
Marker labels	TM26CB

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

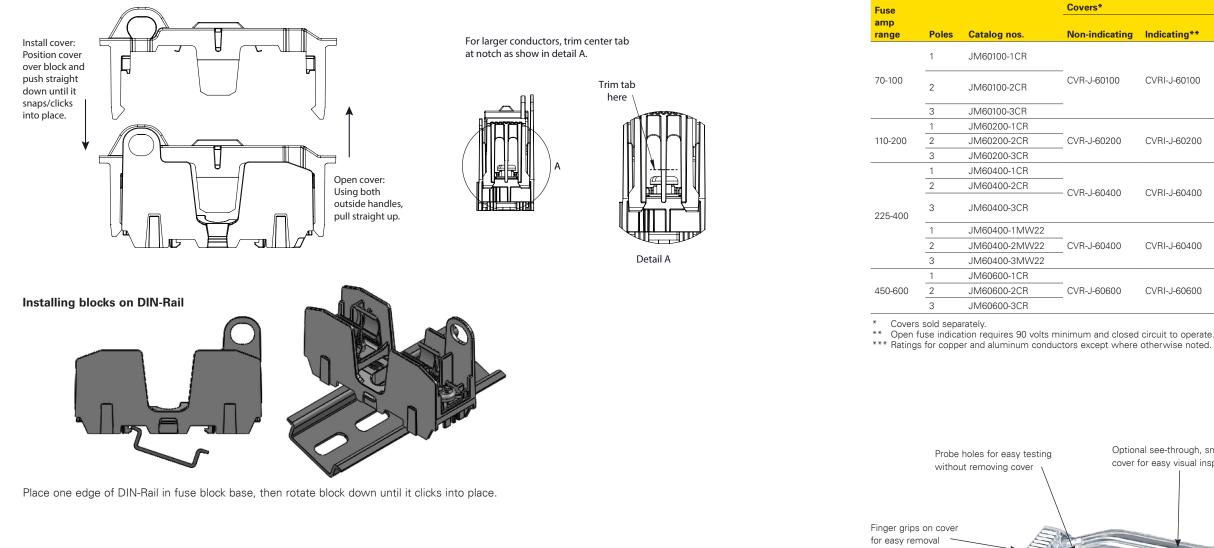
Dimensions; 60A Class J block - in (mm)



4



#### Installing /removing covers





\*No fuse derating necessary.

Toolless interlocking modular design

for easy point-of-use assembly

Standard phase barriers for additional safety

Multiple mounting holes for each pole provide flexible, secure mounting

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#### Table 6: Class J 100 to 600 amp knifeblade blocks and covers

	Conductors***		
Indicating**	Solid and stranded	Fine stranded	Torque N∙m (Ib-in)
	—	Cu 1-3 AWG	6.2 (55)
	1/0-3 AWG; (2) Cu 4-6 AWG	Cu 4-6 AWG	5.6 (50)
CVRI-J-60100	2 4-6 AWG; (2) Cu 8 AWG	Cu 8 AWG	5.1 (45)
	8 AWG; (2) Cu 10-14 AWG —		4.5 (40)
	Cu 10-14 AWG; AI 10-12 AWG	_	4.0 (35)
	250kcmil-1 AWG	Cu 3/0-1 AWG	42 (375)
CVRI-J-60200	2-6 AWG; (2) Cu 2-6 AWG	Cu 2-6 AWG	31 (275)
	600kcmil		57 (500)
CVBI-J-60400	500kcmil-4 AWG	N1/A	51 (450)
CVHI-J-60400	(2) Cu 3/0 - 4 AWG	——— N/A	57 (500)
	(2) AI 3/0 - 4 AWG		34 (300)
	250kcmil-1 AWG	Cu 3/0-1 AWG	42.37 (375)
CVRI-J-60400	2-6 AWG; (2) Cu 2-6 AWG	Cu 2-6 AWG	31.07 (275)
CVRI-J-60600	2 (2) 500kcmil-4 AWG	N/A	51 (450)

#### **Recommended Bussmann series fuses**

Description	Amps	Data sheet no.
Ultimate protection Low-Peak LPJ time- delay fuses	70 to 600	1007
Advanced protection Limitron JKS fast- acting fuses	70 to 600	1026
High speed DFJ drive fuse	70 to 600	1048

Optional see-through, snap-on cover for easy visual inspection

Optional open fuse indication speeds troubleshooting

> Lockout/tagout feature improves safety

Vent slots improve cooling\*

Finger-safe wire entry with cutout tabs for larger wires on all versions



Standard dual lugs on 600A blocks and optional dual lugs on 400A blocks for easier wiring using two, smaller conductors.

69 TYP

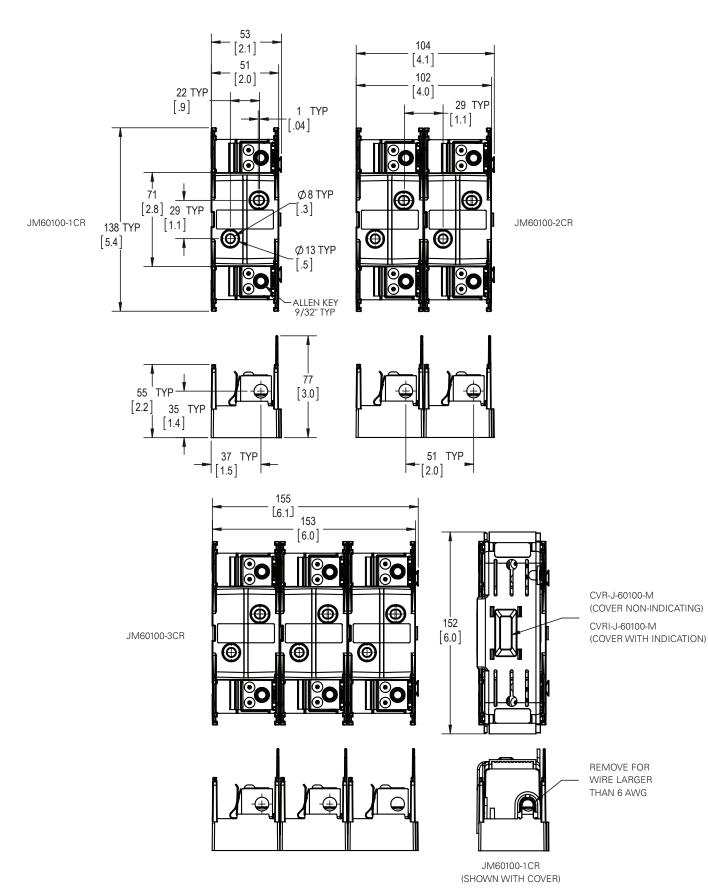
67 TYP

[ 2.7 ]

[2.6]

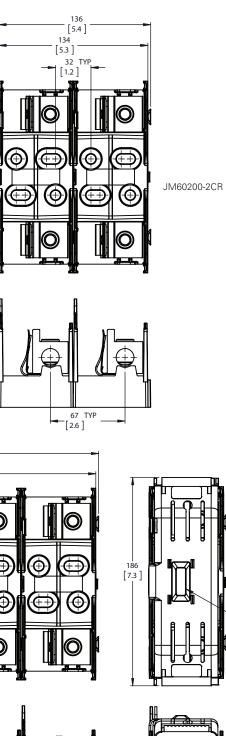
# Dimensions; 100A Class J block - in (mm)

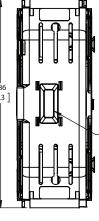
# Dimensions; 200A Class J block - in (mm)



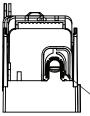
35 TYP 5.3 [1.4] 8 TYP [.3] 32 TYP 1.2 Ø 172 TY Ø9 TYP ( )6.8 <del>ر</del>ک ( ) $(\oplus)$ [.3] 81 TYP 32 TYI [3.2] Ø 19 TY [1.3] [.8] JM60200-1CR ( ) $\Theta$  $\bigcirc$ œ€ Q Ø - ALLEN KEY 3/8" TYP. 97 [3.8]  $\oplus$  $\bigoplus$ 75 TYP 45 TY [1.8 46 TYP [1.8] 67 TYP [2.6] ----203 [8.0] 200 1  $\bigcirc$ Ø O  $(\oplus)$  $\oplus$  $\bigcirc$ Ð  $\oplus$  $\odot$ JM60200-3CR  $\bigcirc$  $( \oplus )$  $\oplus$  $(\bigcirc)$ O  $\bigcirc$ Ø  $\overline{\bigcirc}$  $\bigoplus$ 

8





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



JM60200-1CR (SHOWN WITH COVER) REMOVE FOR WIRE LARGER THAN 2 AWG

123 TYP

120 TYP

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8 TYP

Ø9 TYP

[.3]

[.3]

[4.8]

[4.7]

[2.8]

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1 71 TYP

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

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

ALLEN KEY 3/8" TYP-

52 TYP

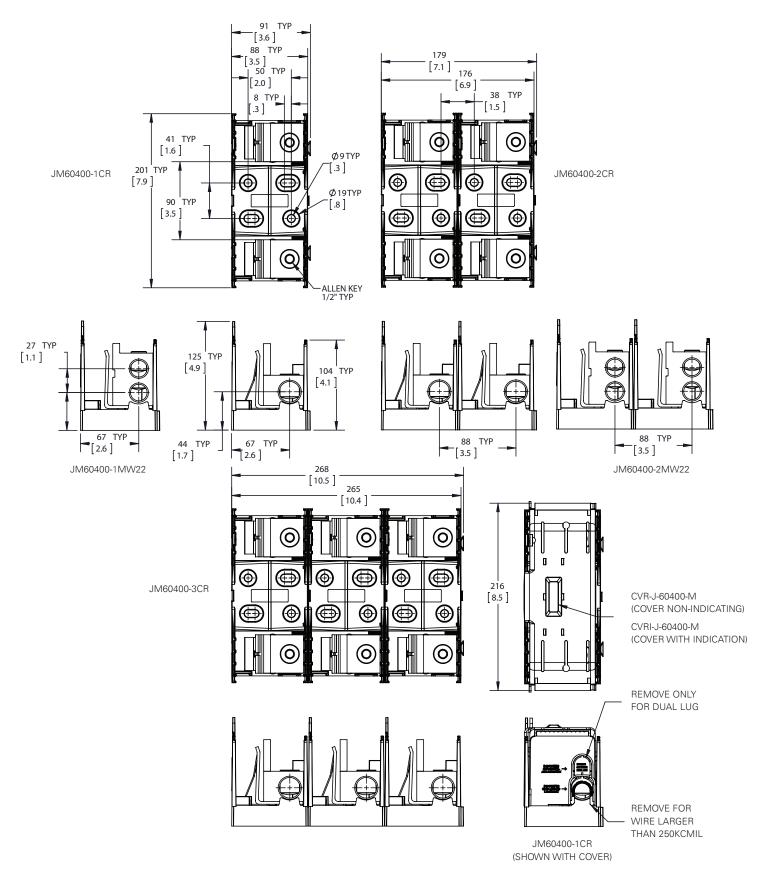
100 TYP

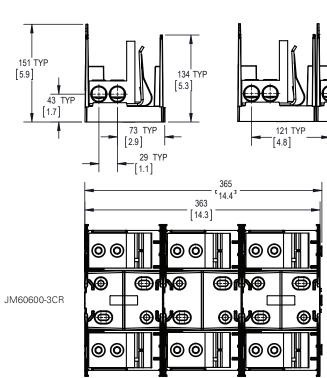
[3.9]

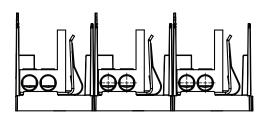
[2.1]

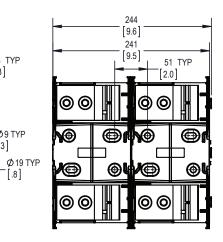
234 TYP

JM60600-1CR [9.2]

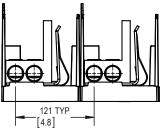


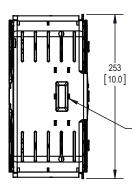




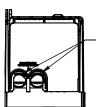


JM60600-2CR





CVR-JM60600 (COVER NON-INDICATING) CVRI-JM60600 (COVER WITH INDICATION)



JM60600-1CR (SHOWN WITH COVER)

REMOVE FOR WIRE LARGER THAN 250KCMIL

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