

# Screw Connection Terminal Blocks

## Certifications

Allen-Bradley terminal blocks generally have been designed to meet the requirements of one or more regulatory bodies. Most products have also been tested per additional standards. The following is a listing of some of the regulatory bodies and standards which apply to Allen-Bradley terminal block products. See the particular product description for information on specific certifications and ratings.



(Underwriters Laboratories) – Devices in this catalog with one of these ratings have been tested by Underwriters Laboratories and meet the requirements of one or more of the following United States Standards:

Reference UL files E34648, E40735



(Underwriters Laboratories) – Devices in this catalog with this rating have been tested by Underwriters Laboratories and meet the requirements of the following Canadian Standard:

- CSA 22.2 No. 158 – Terminal Blocks

Reference UL file E40735



(Canadian Standards Association) – Devices in this catalog with this rating have been tested by the Canadian Standards Association and meet the requirements of the following Canadian Standard:

- CSA 22.2 No. 158 – Terminal Blocks

Reference CSA files LR67896



Terminal blocks listed in this catalog meet the requirements of the Low Voltage Directive put forth by the European Union. Devices have been tested and comply with one or more of the following European Norms:

- EN 60947-1 – Low Voltage Switchgear and Controlgear: General Rules
- EN 60947-7-1 – Low Voltage Switchgear and Controlgear: Terminal Blocks for Copper Conductors
- EN 60947-7-2 – Low Voltage Switchgear and Controlgear: Protective Conductor Terminal Blocks for Copper Conductors
- EN 60947-7-3 – Low Voltage Switchgear and Controlgear: Safety Requirements for Fuse Terminal Blocks



ATEX – Devices listed in this catalog with “ATEX” ratings meet the following European Norms per DEMKO or KEMA, Approval Certification Bodies for the European Union:

- EN 60079-7 – Electrical Apparatus for Potentially Explosive Atmospheres – General Requirements

- EN 60079-0 – Electrical Apparatus for Potentially Explosive Atmospheres – Increased Safety “e”

Contact your local Rockwell Automation sales office or Allen-Bradley distributor for a copy of the certificate.

**Ex e II** – Many 1492-J, 1492-K, 1492-L, and 1492-W terminal blocks in this catalog meet the following Canadian Standards per Underwriters Laboratories:

CAN/CSA E 60079-7 – Electrical Apparatus for Explosive Atmospheres – Part 0 – General Requirements

CAN/CSA E 60079-0 – Electrical Apparatus for Explosive Atmospheres – Part 7 – Increased Safety “e”

These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E187022. Contact your local Allen-Bradley distributor for more information.

**AEx e II** – Devices listed in this catalog with an “AEx e II” rating meet the following United States Standard per Underwriters Laboratories:

- ANSI/UL 60079-0 and 60079-7 – Standard for Electrical Equipment for Use in Class I, Zone 0, 1, and 2 Hazardous (Classified) Locations

These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E187022. Contact your local Rockwell Automation sales office or Allen-Bradley distributor for more information.

**Lloyd’s Register** – Many 1492-H, 1492-J, 1492-L, and 1492-W terminal blocks in this catalog have been certified for use in marine, off-shore, and industrial installations per the following standard:

- Lloyd’s Register Test Specification No. 1:1996

Contact your local Rockwell Automation sales office or Allen-Bradley distributor for a copy of the certificate.

### ***The Allen-Bradley Line of IEC Terminal Blocks... International Products for a Worldwide Marketplace***

The Allen-Bradley Bulletin 1492-J line of internationally approved IEC style terminal blocks offers a wide range of features and benefits ideally suited for many industrial applications. The 1492-J line has been designed to meet the tough requirements of almost every industrial application. Functional, internationally approved, finger-safe, and cost-effective – the Allen-Bradley Bulletin 1492-J line.

### ***Products Available in the Bulletin 1492 Screw Terminal Block Line***

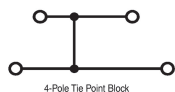
Our family of IEC terminal blocks consists of many different types of blocks, from general feed-through terminal blocks for control wiring to specialty blocks for grounding and isolating. We even offer thermocouple terminal blocks, specifically designed for temperature-dependent process control applications.

Products offered within the Bulletin 1492 Screw Terminal Block line include:

- **Feed-Through Blocks**, capable of accommodating #30...2/0 AWG (0.2...70 mm<sup>2</sup>) wire
- **Grounding Blocks** for grounding a given circuit to the DIN Rail
- **Mini Blocks** for applications where panel space is at a premium
- **Two-Level Blocks** that double circuit wiring density
- **Multi-Conductor Blocks** that allow splitting or joining of control circuits
- **Three-Level Sensor Blocks** for coordination of three-wire sensor groups
- **Isolation Blocks** for circuit isolation during testing and troubleshooting
- **Fuse Blocks**, with and without blown fuse indication, for easily integrated overcurrent protection
- **Electrical Component Blocks** that allow the insertion of fixed components into control circuits. Available components include resistors, diodes, surge suppression circuits, and shunt bars.

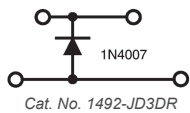
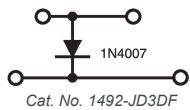
### ***Tie-Point Block (Cat. No. 1492-JD3C)***

Incorporates a shunt bar between the upper and lower current bars to provide a common point among all four terminals.



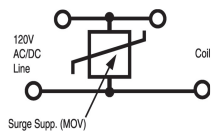
### ***Diode Block (Cat. Nos. 1492-JD3DF, 1492-JD3DR)***

Uses a 1N4007 diode between the upper and lower levels for insertion into a control circuit. This block is useful in low voltage DC control circuits for directioning and suppression.



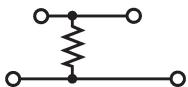
### Surge Suppression Block (Cat. Nos. 1492-JD3SS)

Provides a convenient means of incorporating transient suppression for relays, contactors, and solenoids into a control system.



### Resistor Block (Cat. No. 1492-JD3RC001)

Permits the introduction of a 249  $\Omega$  resistor into a control circuit.



- **Return Blocks** that have both terminations on the same side of the terminal block allowing the rail to be mounted next to the wall of an enclosure
- **Plug-In Style Blocks** that allow the insertion of removable plugs into control circuits. Available plugs include a Disconnect Plug, a Fuse Plug, and a Component Plug which will accommodate various electrical components
- **Thermocouple Terminal Blocks** (Types B, E, J, K, N, S, T) for temperature control applications
- A wide variety of **Snap-In Markers** for individual or group circuit identification
- Multi-pole insulated **Center Jumpers** which provide a convenient method of commoning control circuits

### Materials and Design Features

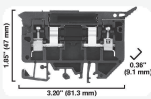
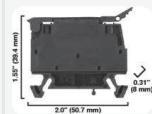
The Bulletin 1492-J line is designed for safety, installation ease, and ruggedness. Features using these design criteria include the following:

- Tin-plated terminals and steel screws for corrosion resistance (Bulletin 1492-W terminal blocks have nickel-plated terminals and stainless steel screws)
- High copper content copper alloy for excellent conductivity
- Four-sided wire funnel guides for easy wire insertion
- Finger-safe housings to prevent accidental contact with live circuits
- International approvals for worldwide use
- DIN Rail (Cat. No. 199-DR1) mountability, allowing terminal blocks to be placed on the same channel as contactors, starters, relays, and other DIN Rail-mounted control devices
- Self-extinguishing, polyamide 6.6 housing material with UL 94-V0 flammability rating (Bulletin 1492-W terminal blocks have UL 94-V2 flammability rating)
- Backed out screws for fast wiring

### Fuse Blocks

		1492-J6FB1...			1492-J6FB2...		
Dimensions are not intended to be used for manufacturing purposes. Note: Height dimension is measured from top of rail to top of terminal block.							
<b>Specifications</b>		Single-circuit fuse block with or without blown fuse indication			Single-circuit fuse block with or without blown fuse indication		
Certifications		UL	CSA	IEC	UL	CSA	IEC
Voltage Rating	J6FB1/J6FB2	600V AC/DC		500V AC/DC	600V AC/DC		500V AC/DC
	J6FB124/J6FB224	10...36V AC/DC		10...36V AC/DC			
	J6FB148/J6FB248	30...70V AC/DC		30...70V AC/DC			
	J6FB1120/J6FB2120	60...150V AC/DC		60...150V AC/DC			
	J6FB1250/J6FB2250	100...250V AC/DC		100...250V AC/DC			
Maximum Current		10 A	16 A	6.3 A	10 A	10 A	6.3 A
Wire Range (Rated Cross Section)		#22...8 AWG	#20...8 AWG	6 mm <sup>2</sup>	#22...8 AWG	#20...8 AWG	6 mm <sup>2</sup>
Wire Strip Length		0.47 in. (12 mm)			0.47 in. (12 mm)		
Recommended Tightening Torque		10.6 lb•in (1.2 N•m)			14.2 lb•in (1.6 N•m)		
Density		25 pcs/ft (84 pcs/m)			38 pcs/ft (126 pcs/m)		
Housing Temperature Range		-58...+248 °F (-50...+120 °C)			-58...+248 °F (-50...+120 °C)		
Leakage Current		≤ 0.5 mA at Nominal Voltage			≤ 0.5 mA at Nominal Voltage		
Fuse Size (not supplied)		1/4 x 1-1/4 in.			5 x 20 mm		
<b>Terminal Blocks</b>		Cat. No.		Pkg Qty.	Cat. No.		Pkg Qty.
Color:	Black No-indication	1492-J6FB1		30	1492-J6FB2		50
	Black w/LED	1492-J6FB124		25	1492-J6FB224		50
	Black w/LED	1492-J6FB148		25	1492-J6FB248		50
	Black w/LED	1492-J6FB1120		25	1492-J6FB2120		50
	Black w/LED	1492-J6FB1250		25	1492-J6FB2250		50
<b>Accessories</b>		Cat. No.		Pkg Qty.	Cat. No.		Pkg Qty.
Mounting Rails:		199-DR1		10	199-DR1		10
1 m Symmetrical DIN (Steel)		199-DR1		10	199-DR1		10
1 m Symmetrical DIN (Aluminum)		1492-DR5		10	1492-DR5		10
1 m Hi-Rise Sym. DIN (Aluminum)		1492-DR6		2	1492-DR6		2
1 m Angled Hi-Rise Sym. DIN (Steel)		1492-DR7		2	1492-DR7		2
End Barrier		1492-EBJ3		50	1492-EBJ3		50
End Anchors and Retainers:		1492-EAJ35		100	1492-EAJ35		100
DIN Rail – Normal Duty		1492-EAJ35		100	1492-EAJ35		100
DIN Rail – Heavy Duty		1492-EAHJ35		50	1492-EAHJ35		50
Jumpers <sup>Δ</sup>		1492-CJJFB1-2		50	1492-CJJFB2-2		50
Center Jumper, 2-pole		1492-CJJFB1-2		50	1492-CJJFB2-2		50
Center jumper, 10-pole		1492-CJJFB1-10		50	1492-CJJFB2-10		50
Screws for center jumpers		1492-CJJ6FBMS		1	1492-CJJ6FBMS		1
Notching tool		1492-CJJ6FBTL		1	1492-CJJ6FBTL		1
Other Accessories:		1492-EBJ16		20	1492-EBJ16		20
Partition Plate		1492-EBJ16		20	1492-EBJ16		20
Marking Systems:		1492-M7X12		5	1492-M7X12		5
Snap-In Marker Card		1492-M7X12		5	1492-M7X12		5

<sup>Δ</sup> Center jumpers are shipped unassembled and require the screws and notching tool listed to assemble.

		1492-H...			1492-WFB4...		
Dimensions are not intended to be used for manufacturing purposes. Note: Height dimension is measured from top of rail to top of terminal block.							
<b>Specifications</b>		Single-circuit fusible terminal block with or without fuse indication.			Single-circuit fuse block with or without fuse indication.		
Certifications		UL	CSA	IEC	UL	CSA	IEC