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Find the *Rockwell / Allen-Bradley 2090-U3BB2-DM44* at our website: *Click HERE*

Allen-Bradley

Control Interface Breakout Boards

Catalog Numbers 2090-U3BB2-DM44, 2090-U3BB-DM12

About the Control Interface Breakout Board

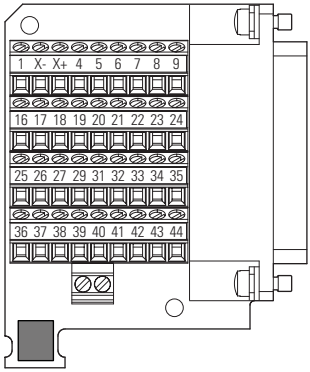
These boards provide discrete wiring terminations for signals on the CN1 I/O connector. The 44-pin breakout board (catalog number 2090-U3BB2-DM44) can be used with any Ultra3000 drive. The 12-pin breakout board (catalog number 2090-U3BB-DM12) is intended for use with SERCOS drives but may be used in non-SERCOS applications with minimal I/O requirements.

IMPORTANT	You must supply an external 5.2V DC auxiliary power source to retain control power when main power is removed from Ultra3000 2098-DSD-005, 2098-DSD-010, and 2098-DSD-020 drives.

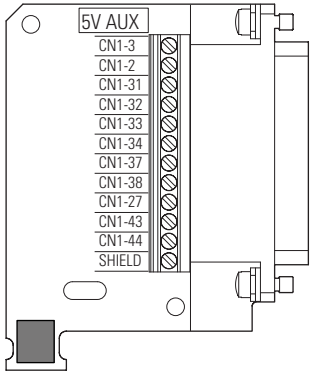
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Install the Control Interface Breakout Board

44-pin Breakout Board

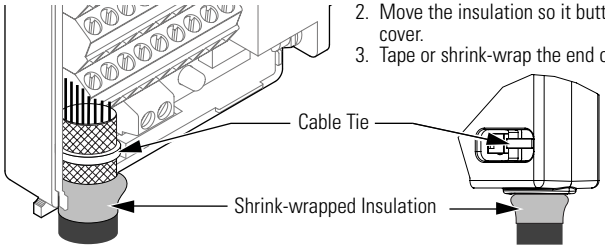


12-pin Breakout Board



Follow these steps to form a compact connection.

1. Push the insulation down-and-over itself.
2. Move the insulation so it butts against the outside wall of cover.
3. Tape or shrink-wrap the end of the insulation to the cable.

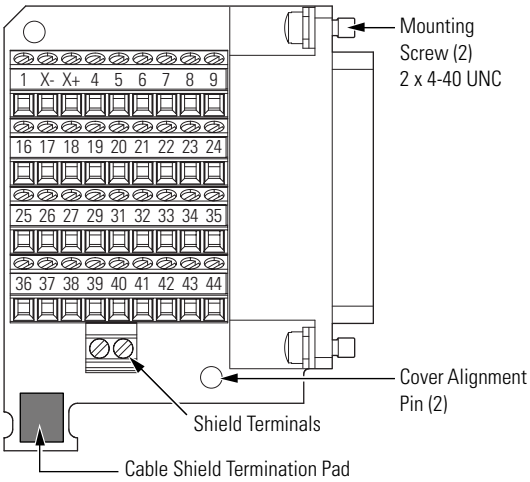


Attribute	2090-U3BB2-DM44, 2090-U3BB-DM12
Cable diameter	12.7 mm (0.5 in.) max
Screw terminal wire size	0.06…1.31 mm^2 (30…16 AWG)
Recommended wire strip length	25…63 mm (1.0…2.5 in.)
Recommended torque Mounting screws Terminal screws	 0.40 N•m (3.5 lb•in) 0.25 N•m (2.2 lb•in)

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Connector Data

Catalog Number 2090-U3BB2-DM44



Terminal	Signal
1	EPWR_5V
X– (1)	AUX_COM
X+ (1)	5V_AUX_PWR
4	AX+
5	AX–
6	BX+
7	BX–
8	IX+
9	IX–
16	AMOUT+
17	AMOUT–
18	BMOUT+
19	BMOUT–

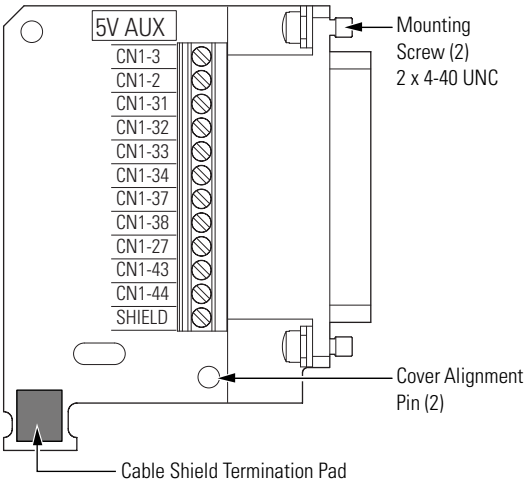
Terminal	Signal
20	IMOUT+
21	IMOUT–
22	ACOM
23	AOUT
24	ILIMIT
25	CMND+
26	CMND–
27	IOCOM
29	IOPWR
31	INPUT1
32	INPUT2
33	INPUT3
34	INPUT4

Terminal	Signal
35	INPUT5
36	INPUT6
37	INPUT7
38	INPUT8
39	OUTPUT1
40	OUTPUT2
41	OUTPUT3
42	OUTPUT4
43	RELAY+
44	RELAY–
⏚	SHIELD
⏚	SHIELD

(1) The 5.2V DC auxiliary power source is connected to the X+ (positive) and X– (negative) terminals. Do not ground the supply elsewhere in the system, as X– is connected to the drive chassis ground.

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Catalog Number 2090-U3BB-DM12



Connector Pin	Signal	
	SERCOS	Non-SERCOS
CN1-3	AUXPWR (1)	AUXPWR (1)
CN1-2	AUXCOM (1)	AUXCOM (1)
CN1-31	ENABLE	INPUT1
CN1-32	HOME	INPUT2
CN1-33	REG1	INPUT3
CN1-34	REG2	INPUT4

Connector Pin	Signal	
	SERCOS	Non-SERCOS
CN1-37	OTRAV+	INPUT7
CN1-38	OTRAV–	INPUT8
CN1-27	I/OCOM	I/OCOM
CN1-43	BRAKE+	RELAY+
CN1-44	BRAKE–	RELAY–
SHIELD	SHIELD	SHIELD

(1) The 5.2V DC auxiliary power source is connected to the AUXPWR (positive) and AUXCOM (negative) terminals. Do not ground the supply elsewhere in the system, as AUXCOM is connected to the drive chassis ground.

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