

OFFICIAL MODEL-SPECIFIC GUIDE

Installation Instructions

CCU-24-H 3AXD50000018771

ABB drive control units - 24 V control unit

01 VERIFIED CONFIGURATION

Control Supply	24 V DC
Analog Inputs	3
Analog Outputs	2
Digital Inputs	6
Digital Outputs	2 programmable

02 DOCUMENTED INSTALLATION SCOPE

- Isolate all applicable electrical and process energy before work.
- Confirm the exact article number, option slot and connector assignments.
- Follow the official ABB mounting, wiring and commissioning sequence.

INSTALLATION CHECK

Confirm compatible drive or controller hardware and site procedure before work.

50 Generic cabinet planning instructions

Attaching the control panel on the cabinet door

You can use a mounting platform to attach the control panel on the cabinet door. Mounting platforms for control panels are available as options from ABB. For more information, see:

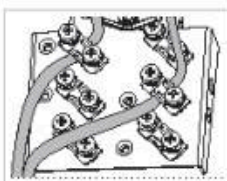
Manual	Code (English)
DPMP-01 mounting platform for control panels installation guide	3AUA0000100140
DPMP-02/03 mounting platform for control panels installation guide	3AUA0000136205
DPMP-04/05 mounting platform for control panels installation guide	3AXD50000308484

		
DPMP-01	DPMP-02	DPMP-04/05

OFFICIAL INSTALLATION AND WIRING REFERENCE

108 Electrical installation

5. Route the control cables along the control cable duct from bottom or top to the control unit.
6. Ground the shields of the control cables at the clamp plate. The shields should be continuous as close to the terminals of the control unit as possible. Only remove the outer jacket of the cable at the cable clamp so that the clamp presses on the bare shield. The shield (especially in case of multiple shields) can also be terminated with a lug and fastened with a screw at the clamp plate. Leave the other end of the shield unconnected or ground it indirectly through a few nanofarads high-frequency capacitor, for example, 3.3 nF / 630 V. The shield can also be grounded directly at both ends if they are in the same ground line with no significant voltage drop between the end points. Tighten the screws to secure the connection.



7. Connect the conductors to the appropriate detachable terminals of the control unit. See chapter [Control unit](#) (page 135) for the default I/O connections of the drive module. Use shrink tubing or insulating tape to contain any stray strands. Tighten the screws to secure the connection. Keep any signal wire pairs twisted as close to the terminals as possible. Twisting the wire with its return wire reduces disturbances caused by inductive coupling.
8. Install the middle front cover back.



■ External control unit (option +P906)

Connect the external conductors to the external control unit and the control unit to the drive module as instructed in chapter [External control unit \(option +P906\)](#) (page 147).

Connecting a control panel

With control panel door mounting platform, connect the control panel as follows:

1. Connect an Ethernet cable to the RJ-45 connector of the control panel.
2. Connect the other end of the cable to the panel port (X12) of the control unit.

