

Control Cassettes

VLT® AutomationDrive FC 360

1 Description

This installation guide explains how to install the standard control cassette and the control cassette with PROFIBUS/PROFINET for VLT® AutomationDrive FC 360.

The following control cassettes are for VLT® AutomationDrive FC 360:

- Standard control cassette.
- Control cassette with PROFIBUS.
- Control cassette with PROFINET.

The installation instructions in this guide apply to all control cassettes. For control cassette with PROFIBUS/PROFINET, mount the decoupling kit after mounting the control cassette. Find the instructions on mounting the decoupling kit in the kit package.

2 Items Supplied

Table 1: Items Supplied

Description		Code number
1 of the 4 types of control cassettes	Standard control cassette	132B0255
	Control cassette with PROFIBUS	132B0256
	Control cassette with PROFINET	132B0257
	Control cassette with PROFINET (supports VLT® 24 V DC Supply MCB 106)	132B2183
Control card for enclosure sizes J8–J9 ⁽¹⁾		132G0279
Screws		–
PROFIBUS/PROFINET decoupling kit		–

1) Refer to the control card installation guide for enclosure sizes J8–J9 in <https://www.danfoss.com/en/products/dds/low-voltage-drives/vlt-drives/vlt-automationdrive-fc-360/#tab-overview>.

3 Safety Precautions

Only qualified personnel are allowed to install the item described in this installation guide.

For important information about safety precautions for installation, refer to the drive's operating guide.

WARNING



DISCHARGE TIME

The drive contains DC-link capacitors, which can remain charged even when the drive is not powered. High voltage can be present even when the warning indicator lights are off.

Failure to wait the specified time after power has been removed before performing service or repair work could result in death or serious injury.

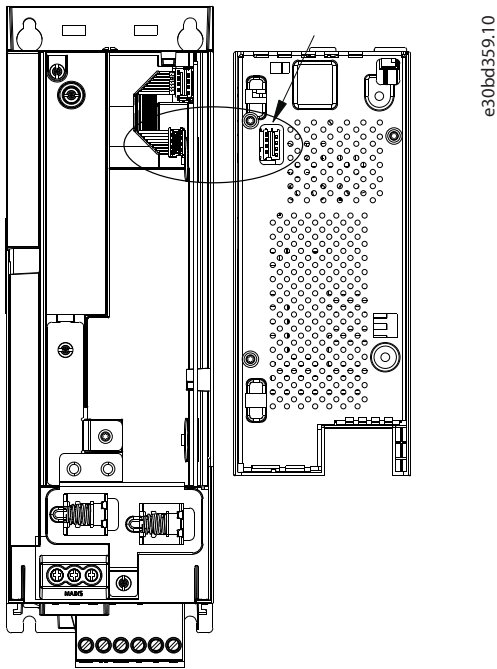
- Stop the motor.
- Disconnect AC mains, permanent magnet type motors, and remote DC-link supplies, including battery back-ups, UPS, and DC-link connections to other drives.
- Wait for the capacitors to discharge fully. The minimum waiting time is specified in the table *Discharge time* and is also visible on the nameplate on the top of the drive.
- Before performing any service or repair work, use an appropriate voltage measuring device to make sure that the capacitors are fully discharged.

Table 2: Discharge Time

Voltage [V]	Power range [kW (hp)]	Minimum waiting time (minutes)
380–480	0.37–7.5 (0.5–10)	4
380–480	11–90 (15–125)	15

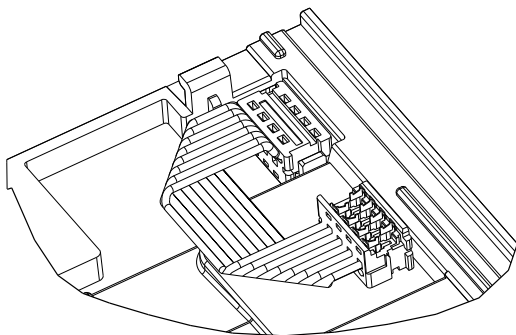
4 Mounting the Control Cassette

1. Remove the old control cassette. See the *chapter Assembly and Disassembly* in the service guide for instructions to remove a control cassette.
2. Connect the control cassette with the drive as shown in [Figure 1](#), bending the cable as shown in [Figure 2](#).



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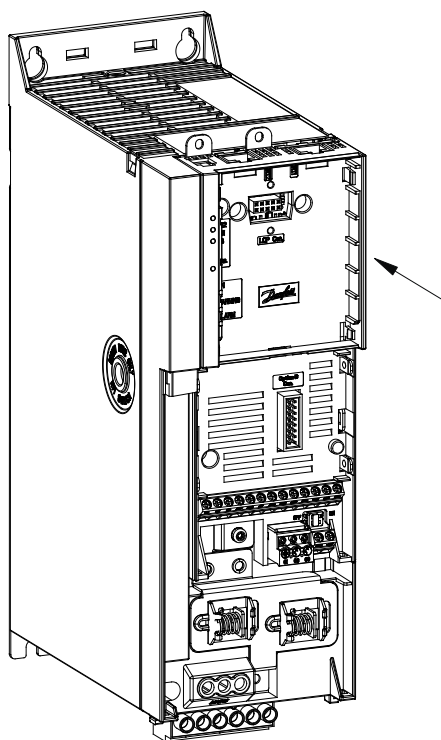
Figure 1: Connection Point on the Control Cassette



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Figure 2: Bend the Connection Cable

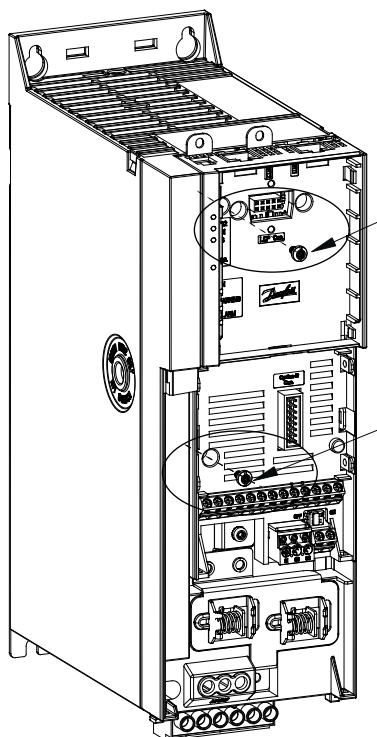
3. Place the control cassette on the drive and slide it into place as shown in [Figure 3](#).



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Figure 3: Slide the Control Cassette into Place

4. Fasten the control cassette on the drive using 2 screws (supplied) as shown in [Figure 4](#). Tightening torque: 0.7–1.0 Nm (6.2–8.8 in-lb).



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Figure 4: Tighten Screws

5 Software Update


NOTICE

It is necessary to update the software in the drive when a new control cassette is installed. Use VLT® Motion Control Tool MCT 10 for the new control cassette to be properly recognized by the drive.

1. Select MCT 10 setup software in the *Start* menu.
2. Select *Configure bus*.
3. Fill in the relevant data in the *Serial fieldbus configuration* window.
4. Click the *Scan bus* icon and find the drive.

 The drive appears in the *ID* view.

5. Click *Software upgrader*.
6. Select the oss file.
7. In the dialog window, tick *Force upgrade* and then click *Start upgrade*.

 The firmware flashes.

8. Click *Done* when the upgrade is complete.

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