

Danfoss FC 101 VLT Control Panel LCP



Danfoss FC 101 VLT Control Panel LCP Installation Guide

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Danfoss FC 101 VLT Control Panel LCP



Specifications:

- Model: LCP
- Manufacturer: Danfoss A/S
- Power Range: Varies based on model
- Operating Voltage: Varies based on model

Product Usage Instructions

Safety Precautions

Only qualified personnel should install the LCP unit. Before installation, refer to the drive's Operating Guide for important safety precautions. Follow these steps to ensure safe installation:

- Stop the motor.
- Disconnect AC mains, permanent magnet type motors, and remote DC-link supplies.
- Wait for the capacitors to discharge fully as per the specified time in the table or on the nameplate.
- Use a voltage measuring device to confirm the capacitors are fully discharged before servicing.

Mounting the LCP

To mount the LCP (e.g., LCP 32), follow these steps:

1. Position the bottom of the LCP in the drive.
2. Push the top of the LCP into place. **CAUTION:** Do not push or press too hard.

If facing difficulty mounting directly on the drive, try inserting the LCP before mounting the terminal cover. Ensure not to touch power terminals when the drive is powered.

FAQ:

- Q: Can anyone install the LCP unit?

A: Only qualified personnel should install the LCP unit to ensure safety and proper installation.

- Q: How do I know if the capacitors are fully discharged?

A: Use an appropriate voltage measuring device to confirm that the capacitors are fully discharged before performing any service or repair work.

Introduction

Description

This Installation Guide explains how to install the LCP for VLT® HVAC Basic Drive FC 101 and VLT® Flow Drive FC 111.

Item Supplied

- VLT® Control Panel LCP 32 (ordering number: 132B9221).
- VLT® Control Panel LCP 31 (ordering number: 132B0200).

Safety Precautions

- Only qualified personnel are allowed to install the LCP described in this Installation Guide.
- For important information about safety precautions for installation, refer to the drive's Operating Guide.

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 the 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 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 1: Discharge Time for FC 101

Voltage [V]	Power range [kW (hp)]	Minimum waiting time (minutes)
3×200	0.25–3.7 (0.33–5)	4
3×200	5.5–11 (7–15)	15
3×400	0.37–7.5 (0.5–10)	4
3×400	11–90 (15–125)	15
3×600	2.2–7.5 (3–10)	4
3×600	11–90 (15–125)	15

Table 2: Discharge Time for FC 111

Voltage [V]	Power range [kW (hp)]	Minimum waiting time (minutes)
3×400	0.37–7.5 (0.5–10)	4
3×400	11–90 (15–125)	15
3×400	110–315 (150–450)	20

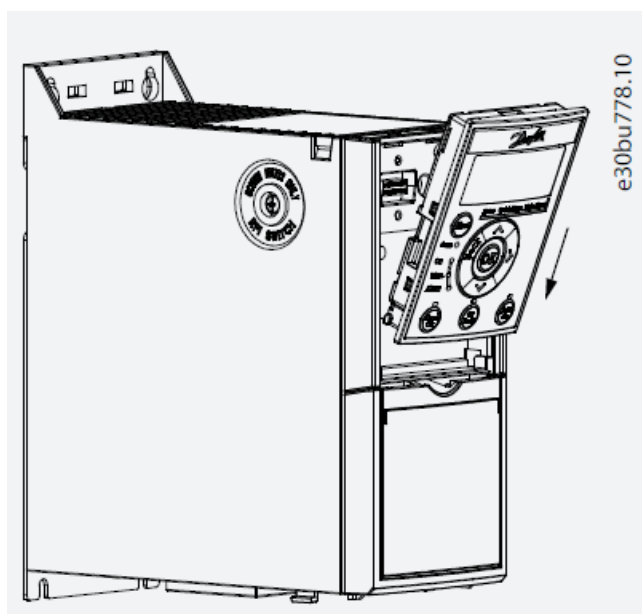
Installation

Mounting the LCP

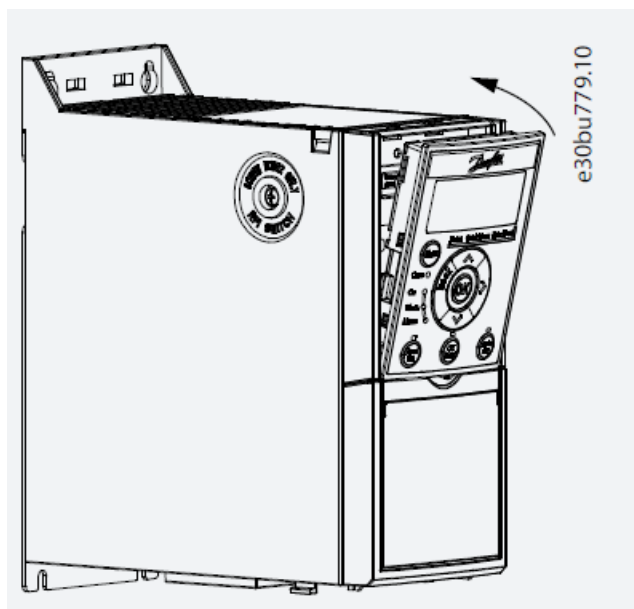
Taking LCP 32 as an example, the following steps describe how to install the LCP in a drive.

Procedure

1. Position the bottom of the LCP in the drive



2. Push the top of the LCP into place.



When mounting the LCP, do not push or press too hard!

If it is not possible to mount the LCP in one easy operation directly on the drive, try to insert the LCP before mounting the terminal cover. When the terminal cover is removed and the drive is powered, do not touch the power terminals.

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Documents / Resources

	<p>Danfoss FC 101 VLT Control Panel LCP [pdf] Installation Guide FC 101 VLT Control Panel LCP, FC 101 VLT, Control Panel LCP, Panel LCP, LCP</p>
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References

-  [Global AC drive manufacturer - Danfoss Drives | Danfoss](#)
- [User Manual](#)

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