



Danfoss IP21 Type 1 Conversion Kit Installation Guide

[Home](#) » [Danfoss](#) » Danfoss IP21 Type 1 Conversion Kit Installation Guide 

Contents

- [1 Danfoss IP21 Type 1 Conversion Kit](#)
- [2 Overview](#)
- [3 Installation](#)
- [4 MORE INFORMATION](#)
- [5 FAQs](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)



Danfoss IP21 Type 1 Conversion Kit



Overview

Description

This installation guide explains how to install the IP21/Type 1 conversion kit for enclosure sizes MA01c, MA02c, MA01a, MA02a, and MA03a of iC2-Micro Frequency Converters.

Kit Numbers

Use these instructions with the following kits.

Table 1: Kit Numbers for IP21/Type 1 Conversion Kit

Kit number	Kit description
132G0188	IP21/Type 1 conversion kit, MA01c
132G0189	IP21/Type 1 conversion kit, MA02c
132G0190	IP21/Type 1 conversion kit, MA01a
132G0191	IP21/Type 1 conversion kit, MA02a
132G0192	IP21/Type 1 conversion kit, MA03a

Items Supplied

The following parts are contained in the kit.

Table 2: Items Supplied in IP21/Type 1 Conversion Kits

Item	Quantity
Top cover	1
Metal plate	1
Rubber grommet	4–5 (depends on enclosure size)
Bottom cover	1
U-terminal	2–3 (depends on enclosure size)
M4x10 screw	3–4 (depends on enclosure size)

Safety Information

Only qualified personnel are allowed to install the IP21/Type 1 conversion kit 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.

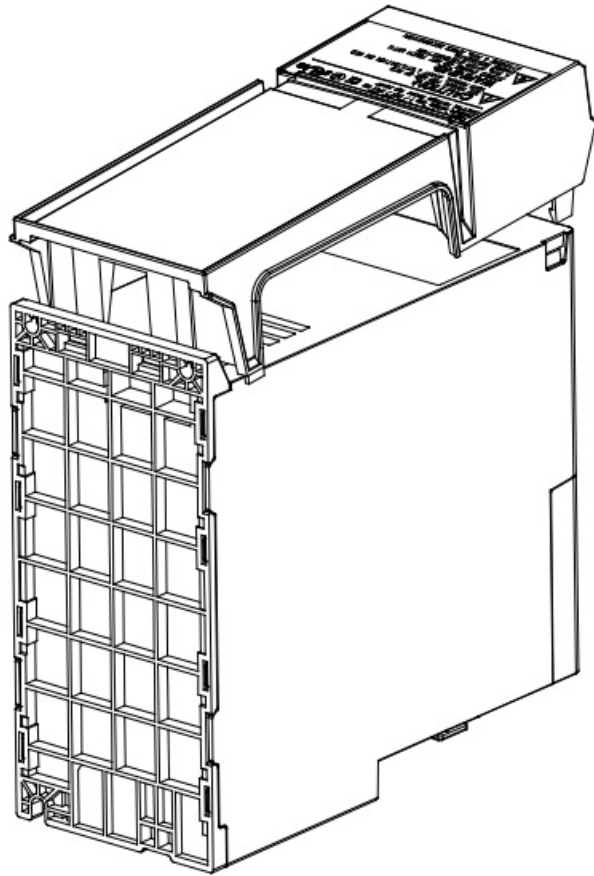
- Stop the motor, disconnect AC mains and permanent magnet type motors, and remove DC-link supplies, including battery back-ups, UPS, and DC-link connections to other drives.
- Wait for the capacitors to discharge fully and measure it before performing any service or repair work.
- The minimum waiting time is 4 minutes for MA01c, MA02c, MA01a, MA02a, and MA03a drives.

Installation

Mounting the IP21/Type 1 Conversion Kit

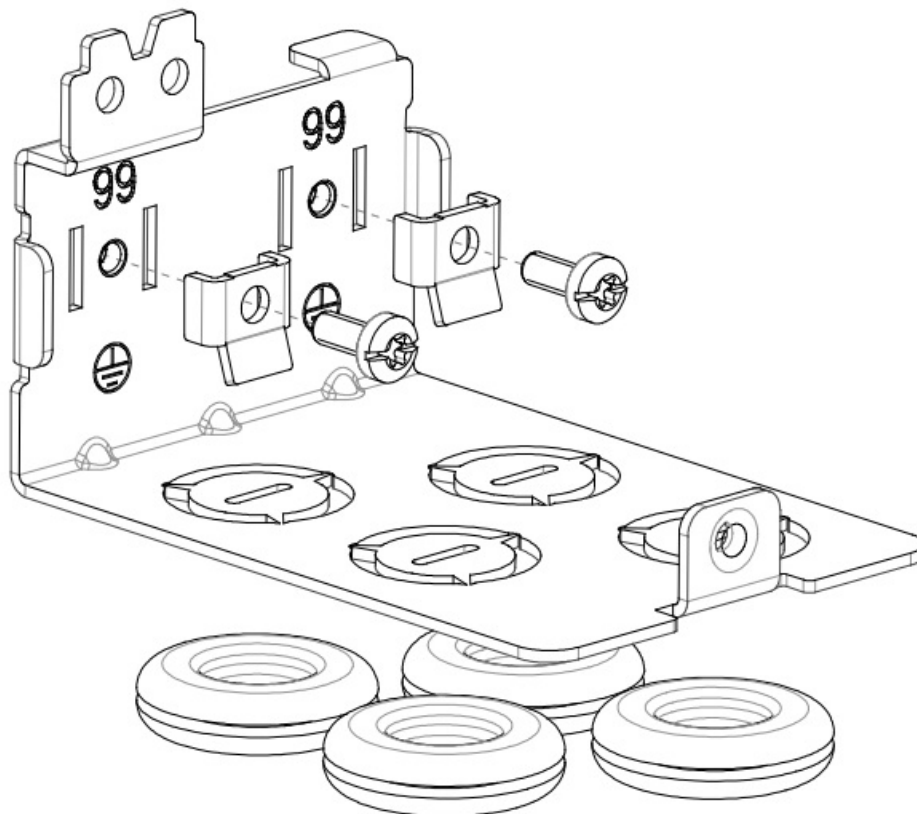
Procedure

1. Fit top cover on the drive, see Illustration 1.



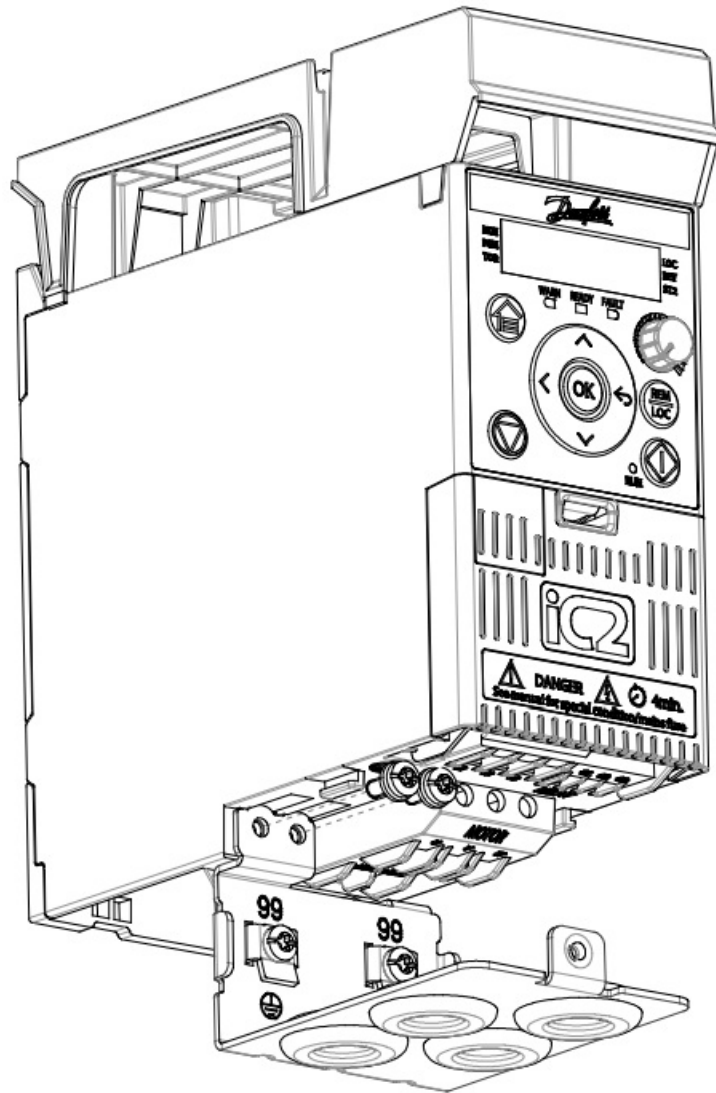
- Illustration 1: Fitting Top Cover

2. Mount U-terminals on the metal plate and tighten screws, see Illustration 2. Maximum tightening torque: 2 Nm (17.7 in-lb).
3. Remove knockouts on the metal plate and fit rubber grommets, see Illustration 2.



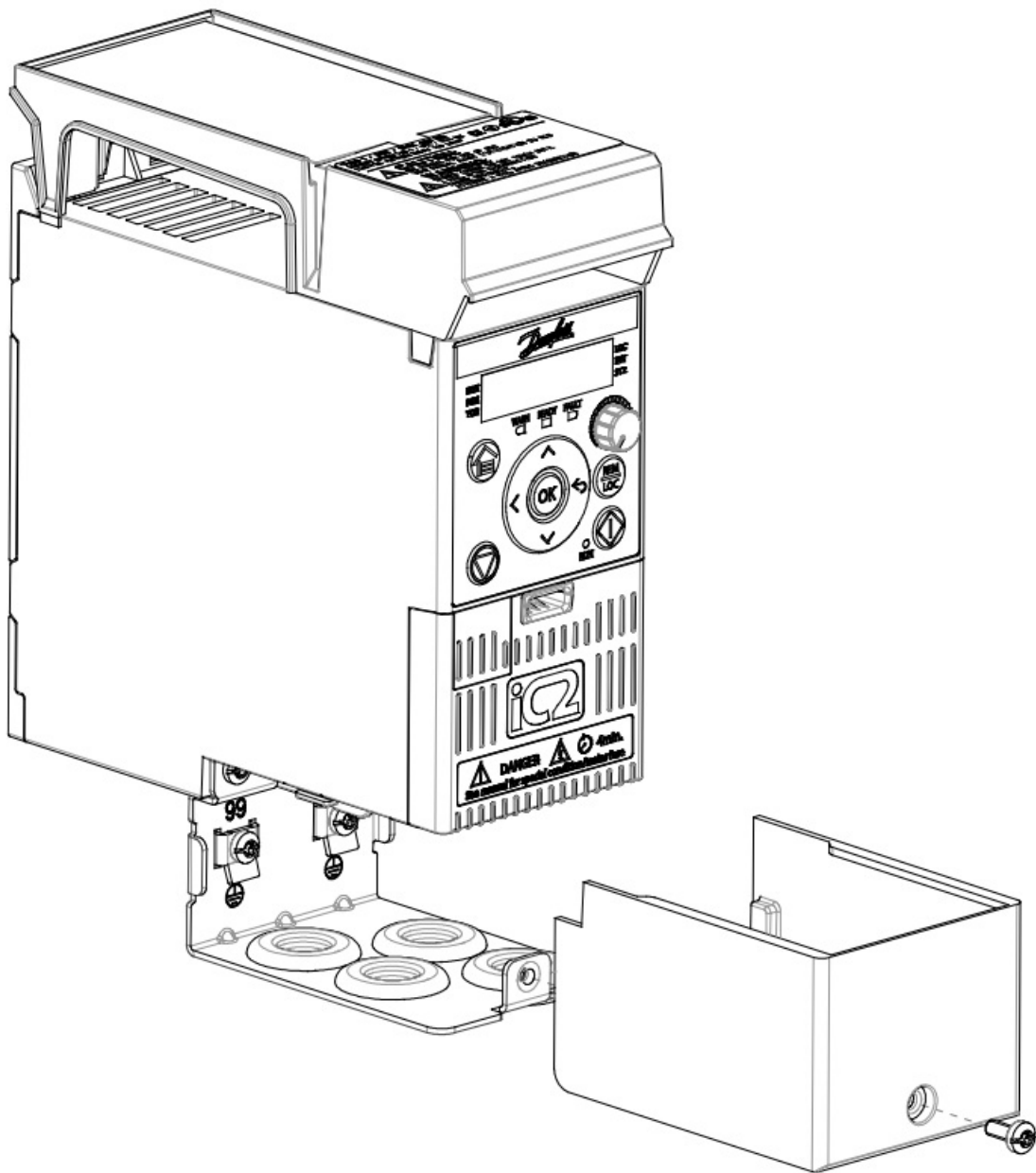
- Illustration 2: Mounting U-terminals and Fitting Rubber Grommets

4. Mount metal plate on the drive and tighten screws, see Illustration 3. Maximum tightening torque: 2 Nm (17.7 in-lb).



- Illustration 3: Mounting Metal Plate

5. Fit bottom cover on the drive and tighten screw, see Illustration 4. Maximum tightening torque: 1.5 Nm (13.3 in-lb).



• Illustration 4: Fitting Bottom Cover

MORE INFORMATION

- Danfoss A/S
- Ulsnaes 1
- DK-6300 Graasten
- drives.danfoss.com

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FAQs

- **Q: Can non-qualified individuals install the conversion kit?**
 - **A:** No, only qualified personnel should carry out the installation due to safety concerns related to high-

voltage components.

Documents / Resources



[Danfoss IP21 Type 1 Conversion Kit](#) [pdf] Installation Guide
MA01c, MA02c, MA01a, MA02a, MA03a, IP21 Type 1 Conversion Kit, IP21, Type 1 Conversion Kit, 1 Conversion Kit, Conversion Kit

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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