

Tall Pedestal Kit for FK11/FB11 and FK12/FB12

iC7 Series Frequency Converters

1 Overview

1.1 **Description**

The pedestal kit contains all parts required to install the tall pedestal for FK11/FB11 and FK12/FB12 frequency converters. The pedestal is 400 mm (15.7 in) and replaces the standard 200 mm (7.9 in) pedestal that ships with the frequency converter. A pedestal and cable entry plate are required for proper operation of the frequency converter. The pedestal features a front grill to allow airflow for cooling. Reuse the cable entry plate that ships with the frequency converter to maintain the IP21/Type 1 or IP54/Type 12 protection rating.

1.2 Kit Numbers

Use these instructions with the following kits.

Table 1: Tall Pedestal Kits (400 mm)

Number	Kit description
176F4044	Pedestal kit for FK11/FB11 frequency converters
176F4037	Pedestal kit for FK12/FB12 frequency converters

1.3 Items Supplied

Table 2: Items Supplied in Tall Pedestal Kits

Item	Quantity
Pedestal base	1
Front panel	1
Front top bracket	1
Front bottom bracket	1
Locking brackets	2
M10x22 screw	6
M8 hex nut	4
M5x14 countersunk screw	6
M10 nylon-insert lock nut	2

2 Installation

2.1 Safety Information

NOTICE

QUALIFIED PERSONNEL

Only qualified personnel are allowed to install the parts described in these installation instructions.

- Disassembly and reassembly of the AC drive must be done in accordance with the corresponding service guide.
- Use the standard fastener torque values from the service guide, unless the torque value is specified in these instructions.



⚠ WARNING



DISCHARGE TIME (40 MINUTES)

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 40 minutes after power has been removed before performing service or repair work can result in death or serious injury.

- Stop the motor.
- Disconnect AC mains and remote DC-link power supplies, including battery backups, UPS, and DC-link connections to other drives.
- Disconnect or lock the permanent magnet motor.
- Wait for the capacitors to discharge fully. The minimum waiting time is 40 minutes.
- Before performing any service or repair work, use an appropriate voltage measuring device to make sure that the capacitors are fully discharged.

↑ WARNING



ELECTRICAL SHOCK HAZARD

The frequency converter contains dangerous voltages when connected to mains voltage. Improper installation, and installing or servicing with power connected, can cause death, serious injury, or equipment failure.

- Only use qualified electricians for the installation.
- Disconnect the frequency converter from all power sources before installation or service.
- Treat the frequency converter as live whenever the mains voltage is connected.
- Follow the guidelines in these instructions and local electrical safety regulations.

NOTICE

ELECTROSTATIC DISCHARGE

Electrostatic discharge can damage components.

- Follow standard ESD procedures.
- Ensure discharge before touching internal components, for example, by touching a grounded, conductive surface or by wearing a grounded armband.



2.2 Overview of Pedestal Installation

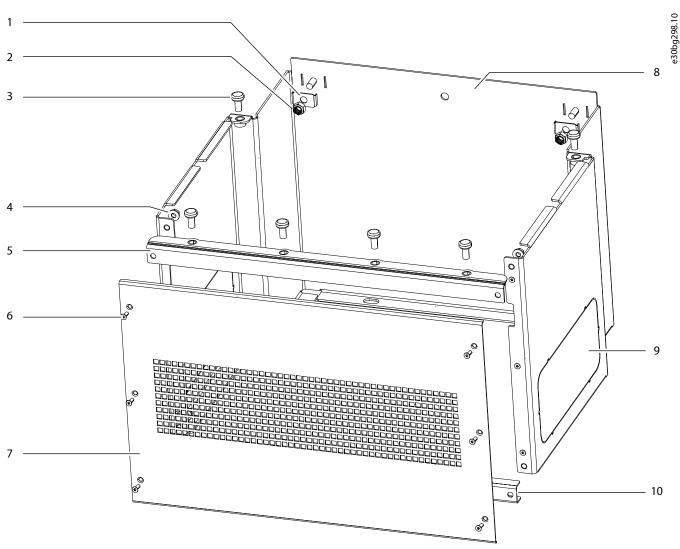


Figure 1: Pedestal Kit Overview

1	Locking bracket	2	M10 nylon-insert lock nut
3	M10x22 screws	4	M8 nut
5	Front top bracket	6	M5x14 countersunk screws
7	Front panel	8	Pedestal
9	Pedestal cutout	10	Front bottom bracket



2.3 Lifting the Frequency Converter

MARNING



LIFTING PRECAUTIONS

The frequency converter is heavy. Failure to follow local safety regulations for lifting heavy weights can cause death, personal injury, or property damage.

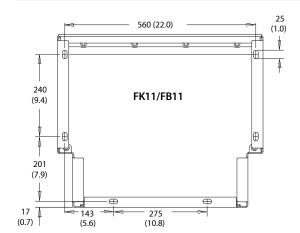
- Ensure that the lifting equipment is in proper working condition.
- Check the weight of the frequency converter and verify that the lifting equipment can safely lift the weight.
- Always lift the frequency converter using the dedicated eye bolts at the top of the frequency converter. To avoid bending the eye bolts, use a bar. Maximum diameter of bar: 20 mm (0.8 in).
- Ensure that the angle from the top of the frequency converter to the lifting cable is 60° or greater.
- Test lift the frequency converter approximately 610 mm (24 in) to verify the proper center of gravity lift point. Reposition the lifting point if the frequency converter is not level.
- Never walk under suspended loads.

2.4 Securing the Pedestal to the Floor

To secure the pedestal to the floor before installing the frequency converter, use the following steps.

- 1. Determine proper placement of the pedestal, considering the operating environment and cable access requirements.
- 2. Use the dimension drawings to create 6 mounting holes for the pedestal. See Figure 2.
- 3. Set the pedestal base on the floor and secure it using 6 M12 bolts (18 mm) through the mounting holes.

Torque the bolts to 35 Nm (310 in-lb).



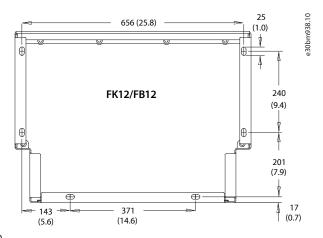


Figure 2: Dimensions for Pedestal Mounting Holes (FK11/FK12 Frames)

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2.5 Attaching the Frequency Converter

After the pedestal is secured to the floor, use the following steps to attach the frequency converter to the pedestal.

↑ WARNING



TIPPING RISK

If the top of the frequency converter is not secured, the frequency converter can tip and cause serious injury.

- After attaching the frequency converter to the pedestal, secure the top of the frequency converter to prevent it from tipping.
- 1. Lift the frequency converter and position it on the pedestal base.
- 2. Slide 2 M10 hex bolts into the 2 slotted holes at the rear of the cabinet.
- 3. Loosely secure the 2 M10 hex bolts (17 mm) with 2 M10 nylon-insert lock nuts and locking brackets. See Figure 3.

Position the frequency converter by adjusting the rear bolts up or down.

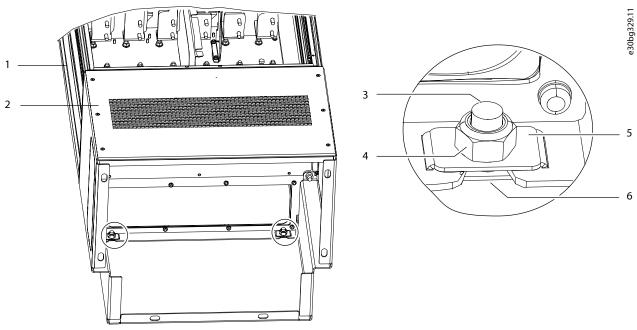


Figure 3: Pedestal-to-Cabinet Back Mounting Points

1	Cabinet	2	Pedestal
3	M10 hex bolt at rear of pedestal	4	M10 nylon-insert lock nut
5	Locking bracket	6	Mounting slot in cabinet

- **4.** Verify that the top clearance for air exhaust is at least 225 mm (9 in).
- **5.** Verify that the air intake at the bottom front of the frequency converter is unobstructed.
- 6. Around the top of the pedestal, secure the cabinet to the pedestal using 6 M10x22 screws (T50). See Figure 4.
- 7. Loosely tighten each fastener until all are installed.

Torque each fastener to 19 Nm (169 in-lb).

8. To secure the top of the frequency converter, fasten 3 M10 bolts (17 mm) at the upper back edge of the cabinet.



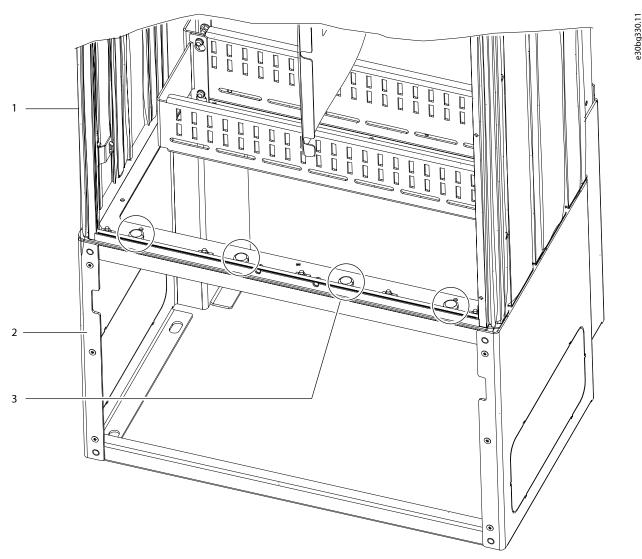


Figure 4: Pedestal-to-Cabinet Front Mounting Points

- 1 Cabinet 2 Pedestal
- 3 M10x22 screws (2 rear corner screws not shown)

2.6 Creating Cable Openings

The cable entry plate provides cable entry and cable termination points, and must be installed to maintain the IP21/Type 1 or IP54/Type 12 protection rating. The cable entry plate is placed between the frequency converter cabinet and the pedestal.

Depending on the stud orientation, the plate can be installed from inside the cabinet or by taking off the front cover of the pedestal. To prepare and install the cable entry plate, use the following steps. Refer to Figure 5.

- 1. Create cable entry holes in the plate using a sheet metal punch.
- 2. If installing the cable entry plate through the pedestal, remove 6 M5x14 countersunk screws (T25) that secure the pedestal front plate.
- **3.** Insert the cable entry plate using 1 of the following methods:
 - **a.** Slide the cable entry plate through the slot in the front of the pedestal.
 - b. Insert the cable entry plate through the cabinet, angling the plate until it slides under the slotted brackets.
- **4.** Align the studs on the cable entry plate with the holes in the pedestal and secure with 10 M5 nuts (8 mm).

Torque each nut to 2.3 Nm (20 in-lb)

5. Fasten the front plate to the pedestal with 6 M5x14 countersunk screws (T25).

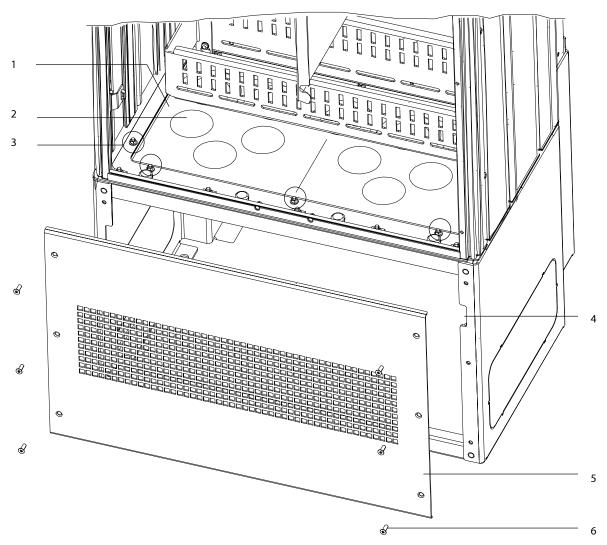


Figure 5: Cable Entry Plate Installation

1	Cable entry plate	2	Cable entry opening
3	M5 nut	4	Slot in pedestal
5	Front plate	6	M5 countersunk screw



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