Installation Guide

Power Control Card, Power Card, Rectifier Module, IGBT Module, and DC-link Capacitor

VLT® AutomationDrive FC 360, Enclosure Sizes J6–J7

1 Description

This installation guide provides information about replacement of the following components for enclosure sizes J6–J7 of VLT® AutomationDrive FC 360.

- Power control card
- Power card
- Rectifier module
- IGBT module
- DC-link capacitor

2 Items Supplied

NOTE: Select the power control card in Table 1 according to the software version and overload type of the drive.

Table 1: Items Supplied

Description	Code number
Power control card with GD 30 kW/40 hp FC 360 HO[1]	132B1751
Power control card with GD 37 kW/50 hp FC 360 HO[1]	132B1752
Power control card with GD 30 kW/40 hp FC 360 NO[2]	132B1901
Power control card with GD 37 kW/50 hp FC 360 NO[2]	132B1949
Power control card with GD 55 kW/75 hp FC 360 HO[3]	132B1753
Power control card with GD 75 kW/100 hp FC 360 HO[3]	132B1754
Power control card with GD 55 kW/75 hp FC 360 NO[4]	132B1791
Power control card with GD 75 kW/100 hp FC 360 NO[4]	132B1799
Power card 30 kW/40 hp (including IGBT, DC-link capacitor) and heat compound	132B0289
Power card 37 kW/50 hp (including IGBT, DC-link capacitor) and heat compound	132B0290
Power card 45 kW/60 hp (including IGBT, DC-link capacitor) and heat compound	132B0291
Power card 55 kW/75 hp and 75 kW/100 hp	132B0307
Rectifier module (dual pack) 30 kW/40 hp and 37 kW/50 hp, and heat compound	132B0293
Rectifier module (dual pack) 45 kW/60 hp and heat compound	132B0294
Rectifier module (dual pack) 55 kW/75 hp and 75 kW/100 hp, and heat compound	132B0309
IGBT module (dual pack), heat compound, and gate drive cable[5]	132B0310
DC-link capacitor, 55 kW/75 hp[5]	132B0311
DC-link capacitor, 75 kW/100 hp[5]	132B0312

1) For high-overload drives with software version 3.x or above and normal-overload drives with software version 3.x–4.30.

2) For normal-overload drives with software version 4.31 or above.

3) For high-overload drives with software version 3.x or above and normal-overload drives with software version 3.x–4.20.

4) For normal-overload drives with software version 4.30 or above.

5) Only for enclosure size J7.

3 Tools Required

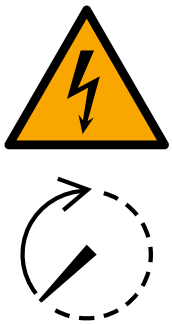
- Screwdrivers (Flat-edged/T10/T20/T25/T30).
- N8 socket wrench.
- N10 socket wrench.
- N5 Allen key.

4 Safety Precautions

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

The personnel must be familiar with the instructions and safety measures described in the service guide.

NOTICE



DISCHARGE TIME (15 MINUTES)

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

Failure to wait 15 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, permanent magnet type motors, and remote DC-link supplies, including battery backups, UPS, and DC-link connections to other drives.
- Wait 15 minutes for the capacitors to discharge fully.
- Measure the voltage level of the capacitors to verify that there is no voltage before opening the drive or performing any work on the drive.

5 Installation

Follow the instructions in the *VLT® AutomationDrive FC 360 Service Guide* to disassemble the drive and replace the relevant components.

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