

Installation Instructions

Power Control Card Supply Cable and Temperature Sensor Cable

VLT[®] AutomationDrive FC 360

These instructions provide information about replacement of the power control card (PCC) supply cable and replacement of the temperature sensor cable in the VLT[®] AutomationDrive FC 360.

Only Danfoss-authorized, qualified personnel is allowed to repair this equipment. The personnel must be familiar with the instructions and safety measures described in the *VLT[®] AutomationDrive FC 360 Service Manual*.

Items Supplied

Items supplied depend on ordered code number and enclosure type of the frequency converter.

Power Control Card Supply Cable

Code number	Items supplied
132B0300	<ul style="list-style-type: none"> PCC supply cable, enclosure type J6
132B0319	<ul style="list-style-type: none"> PCC supply cable, enclosure type J7

Temperature Sensor Cable

Code number	Items supplied
132B0318	<ul style="list-style-type: none"> Temperature sensor cable (only available for enclosure type J7)

Tools Required

- Screwdrivers:
 - Flat-edged
 - T10
 - T20
 - T25
 - T30
- N8 socket wrench
- N10 socket wrench
- N5 Allen key

Safety Instructions

⚠ WARNING

DISCHARGE TIME

The frequency converter contains DC-link capacitors, which can remain charged even when the frequency converter is not powered. 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 power supplies, including battery back-ups, UPS, and DC-link connections to other frequency converters.
- Wait for the capacitors to discharge fully, before performing any service or repair work. The duration of waiting time is specified in *Table 1.1*.

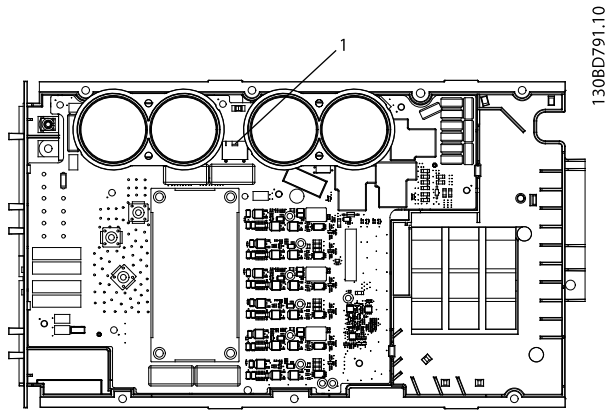
Voltage [V]	Minimum waiting time (minutes)	
	4	15
380-480	0.37-7.5 kW	11-75 kW
High voltage may be present even when the warning LEDs are off!		

Table 1.1 Discharge Time

Installation

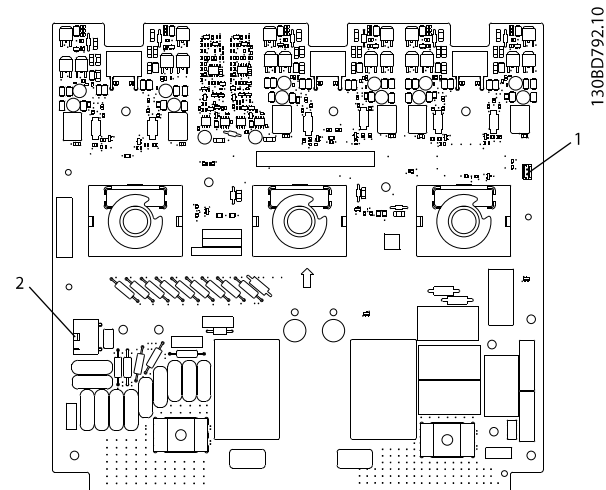
Replacing the PCC supply cable

1. Follow the instruction in *FC 360 Service Manual* to remove the power card.
2. Remove the PCC supply cable.



1	PCC supply cable connection point
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Illustration 1.1 PCC Supply Cable Connection Point on Power Card, Enclosure Type J6

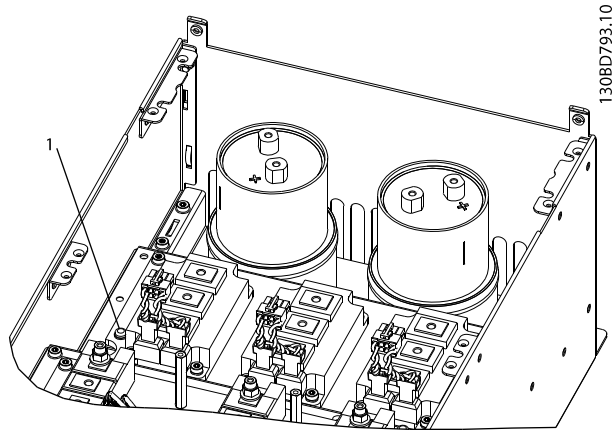


1	Temperature sensor cable connection point
2	PCC supply cable connection point

Illustration 1.2 PCC Supply Cable Connection Point on Power Card, Enclosure Type J7

Replacing the temperature sensor cable

1. Follow the instructions in *FC 360 Service Manual* to remove the IGBT and the DC capacitors until the IGBT cooling plate is accessible.
2. Unscrew the temperature sensor cable from the IGBT cooling plate.



1	Temperature sensor cable connection point
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Illustration 1.3 Temperature Sensor Cable Connection Point

3. Install a new cable in reverse order.

3. Install a new supply cable in reverse order.

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