



Danfoss FC 280 VLT Midi Drive Installation Guide

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Installation Guide
Terminal Torque Instructions
VLT® Midi Drive FC 280

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Installation Instructions

1.1 Description

These instructions give information on the torque values for the terminal blocks used in the VLT® Midi Drive FC 280.

1.2 Part Numbers

Table 1: Accessory Bag Numbers (Cannot be Ordered as Spare Parts)

Drive	Description	Part number
VLT® Midi Drive FC 280	Terminals for enclosure sizes K1–K3. Plug item: 1, 2, 3, 4, 5, 6, 7.	132B0420
	Terminals for enclosure sizes K4–K5. Plug item: 1, 2, 3, 4.	132B0798
VLT® Midi Drive FC 280 with Ethernet Safety Functions	Accessory bag, plugs K1–K3. Plug item: 1, 4, 5, 6, 7, 10, 11.	132B0421
	Accessory bag, plugs K4–K5. Plug item: 1, 4, 10, 11.	132B0799

Table 2: Spare Part Numbers

Description	Ordering number
Terminals for enclosure sizes K1–K5. Plug item: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11.	132B0350

1.3 Safety Precautions

Only Danfoss qualified personnel is allowed to install this equipment.

For important information about safety precautions for installation, refer to the drive's Operating Guide.

1.4 Tools Required

- SZS 0.6×3.5 mm slot screwdriver.

1.5 Torque Instructions

NOTICE

DESTRUCTION OF TERMINALS OR LOOSE CABLES

Applying too much torque can destroy the terminal blocks. Applying too low torque can result in loose cables.

- Only use a screwdriver as specified in 1.4 Tools Required.
- Apply the needed tightening torque as specified in Table 3.
- Do not apply more torque than the maximum torque as specified in Table 3.

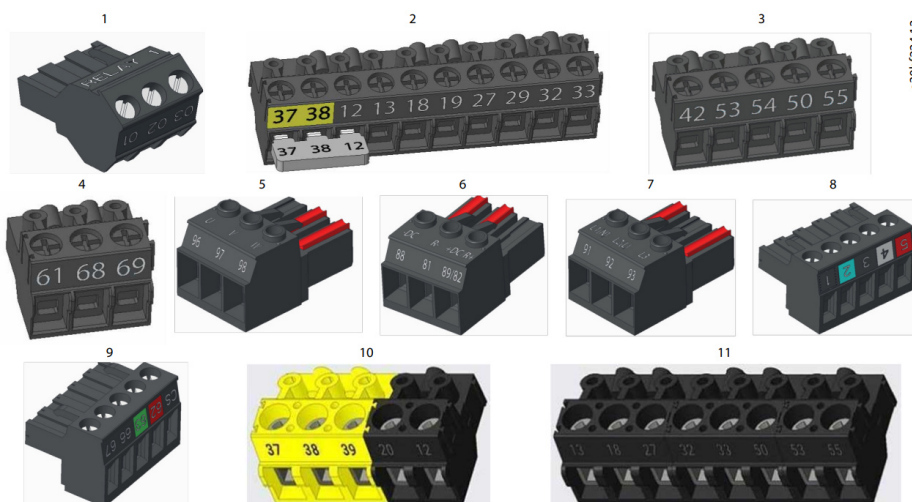


Illustration 1: Tightening Torque for Terminals

Table 3: Tightening Torque for Terminals

Item	Designation	Tightening torque [Nm (in-lb)]	Maximum torque [Nm (in-lb)]
1	Plug connector, relay 1	0.5 (4.4)	0.6 (5.3)
2	I/O terminal plug, 10-pole	0.35 (3.1)	0.4 (3.5)
3	I/O terminal plug, 5-pole		
4	I/O terminal plug, 3-pole		
5	Motor plug, 3-pole 7.62	≤4 mm ² /AWG 12: 0.5 (4.4), >4 mm ² /AWG 12: 0.7 (6.2)	≤4 mm ² /AWG 12: 0.6 (5.3), >4 mm ² /AWG 12: 0.8 (7.1)
6	BR DC plug, 3-pole 7.62		
7	Mains plug, 3-pole 7.62		
8	CANopen plug, 5-pole	0.5 (4.4)	0.6 (5.3)
9	PROFIBUS plug, 5-pole		
10	IO plug, 5-pole, 5 mm	0.35 (3.1)	0.4 (3.5)
11	IO plug, 8-pole, 5 mm		

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