

Danfoss MCD 200 VLT MCD USB Modules



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Danfoss MCD 200 VLT MCD USB Modules



Introduction

The USB Module can be used in conjunction with WinMaster to manage Danfoss soft starters. These instructions detail the installation, set-up and configuration of the USB Module. For details on using WinMaster, refer to the WinMaster help file.

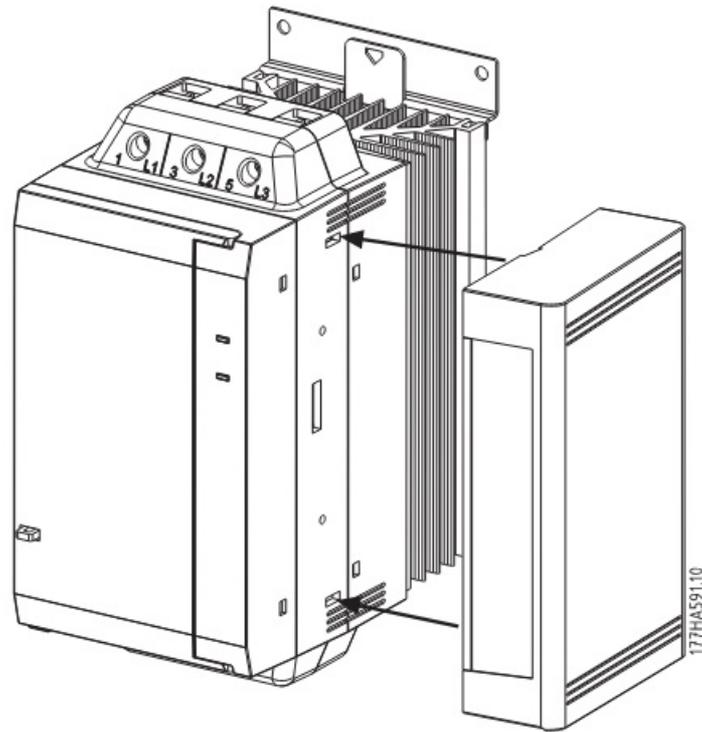
Installation

CAUTION

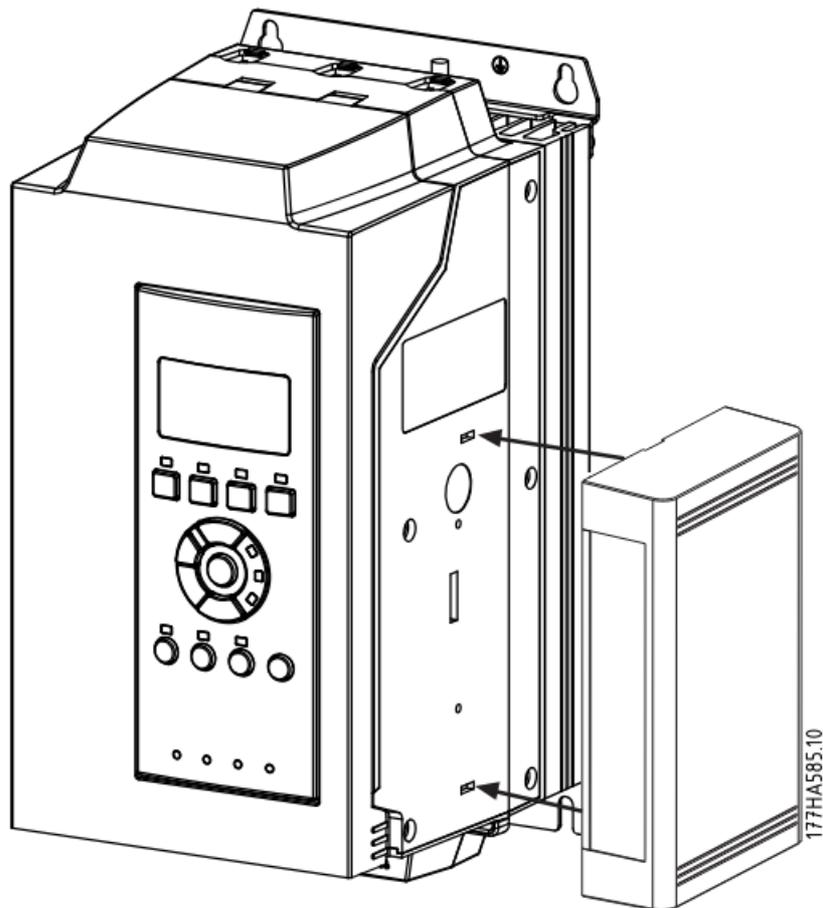
Remove mains and control voltage from the soft starter before attaching or removing accessories. Failure to do so may damage the equipment.

MCD 200

Plug the module onto the side of the soft starter.



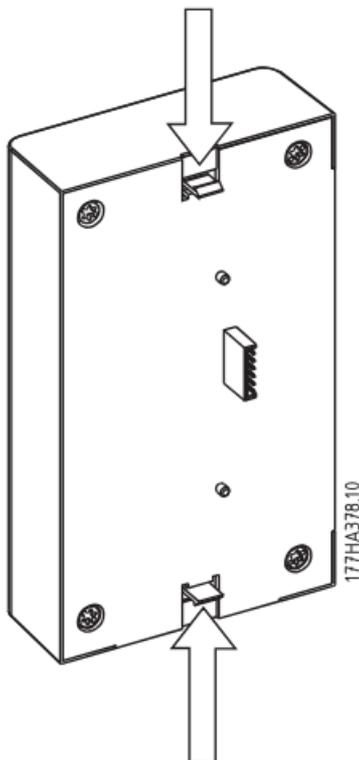
MCD 500: To plug the module onto the side of the soft starter, line the interface up with the comms port slot. Press the top retaining clip of the module into the soft starter chassis first, then press in the bottom retaining clip.



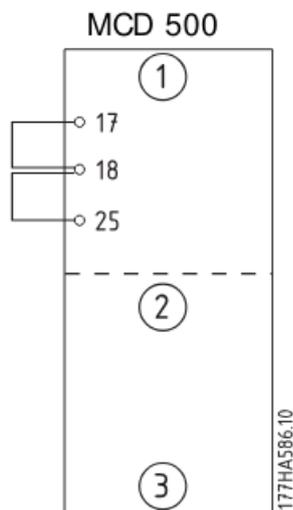
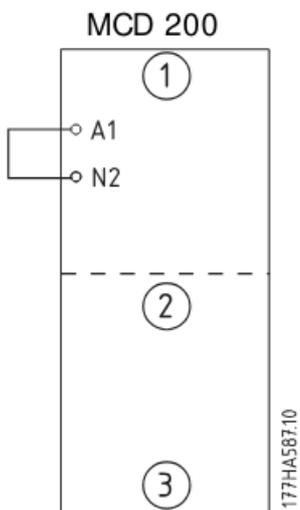
Remove the module using the following procedure:

1. Remove control power and mains supply from the soft starter.
2. Take the module offline.
3. Disconnect the USB cable from the module.

4. Push a small flat-bladed screwdriver into the slots at the top and bottom of the module and depress the retaining clips.
5. Pull the module away from the soft starter.



Connection



| | | | |
|---|------------|---|---|
| 1 | MCD 200 | 1 | MCD 500 (Remote mode) 17, 18: Stop input 25, 18: Reset input |
| 2 | USB Module | | |
| 3 | USB port | | |
| | | 2 | USB Module |
| | | 3 | USB port |

For the USB Module to accept serial commands, a link must be fitted across terminals A1-N2 on MCD 200 starters. Input links are required across terminals 17 and 25 to 18 if the MCD 500 soft starter is being operated in Remote

mode. In Local mode, links are not required.

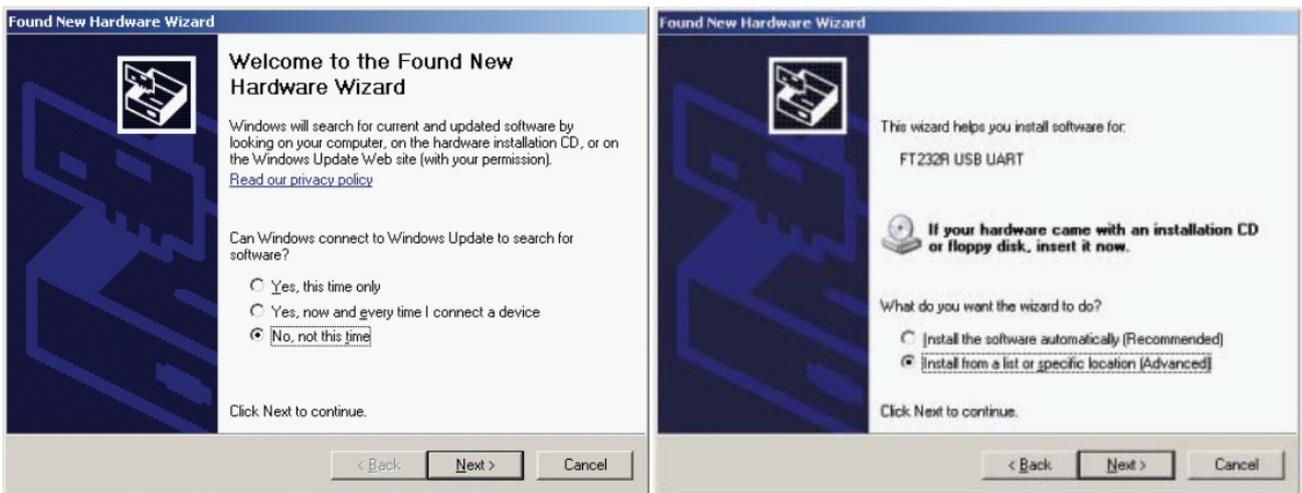
N.B.!:

MCD 500 parameter 3-2 selects whether the soft starter will accept Start and Stop commands from the Serial Network Master while in Remote Mode. See the soft starter user manual for parameter details.

Configuration

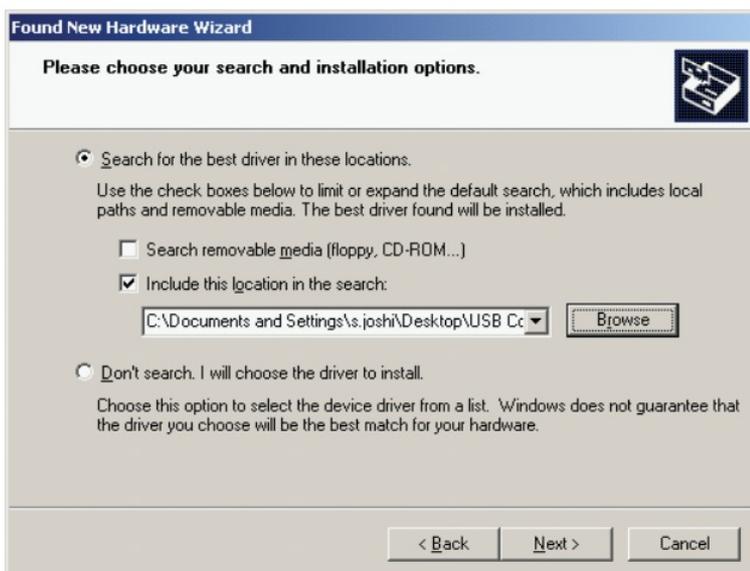
To bring the USB Module on-line:

1. Remove control power and mains supply from the soft starter.
2. Attach the module to the soft starter as illustrated.
3. Connect the module to the PC via a USB cable. The PC should detect the module and the Hardware Update Wizard will open.
4. Install the supplied USB UART driver to operate the module as follows.



177HA588.10

The driver can be found in the USB Comms Drivers folder on the supplied CD. Click on the Browse button then navigate to the drivers folder and select the appropriate folder for your operating system.



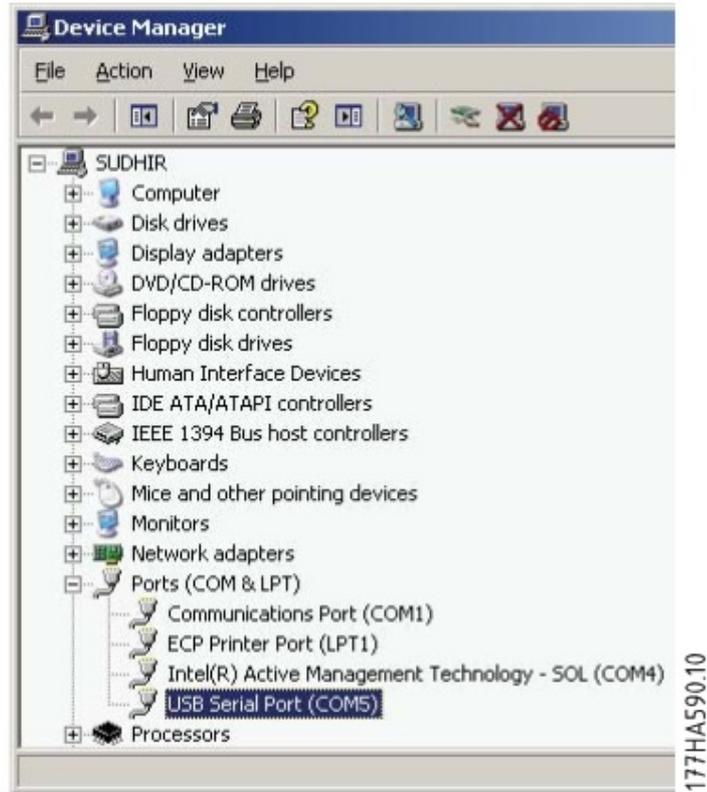
177HA589.10

Click on Ok, then Next. The software will be installed. If you see a prompt, click Continue Anyway. Once installation is complete, click Finish.

1. The PC will prompt you to install serial port driver software. Repeat the procedure in Step 4. You may need to

restart your PC once the driver software is installed.

2. Identify the USB Serial Port assignment by checking Control panel > System > Hardware > Device Manager> Ports (COM & LPT).



N.B.!:

If the USB port is not shown, disconnect and then reconnect the cable. If the problem persists, restart your PC.

1. Open WinMaster and change the Network Settings to:

- **Protocol:** AP Binary or AP ASCII I
- **Baud rate:** 9600
- **Serial Port:** Use the serial port number identified above

2. Apply control voltage to the soft starter. Bring WinMaster online, then Search for Network Starters.

N.B.!:

The starter may trip on Starter Comms while the Master is offline. Reset the soft starter and place the Master online.

N.B.!:

The drivers will configure the USB port that the module is connected to. You must use the same physical USB port every time you connect the module to the PC.

Specifications

- **Order code**
175G9009

Enclosure

- **Dimensions** 35 mm (W) x 157 mm (H) x 90 mm (D)

- **Weight** 250 g
- **Protection** IP20

Mounting

Spring-action plastic mounting clips (x 2)

Connections

- **Soft starter** 6-way pin assembly
- **Network** USB-B
- **Maximum cable length** 3 meters (not supplied)

Settings

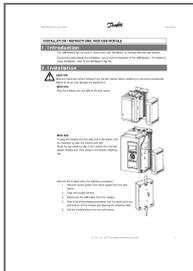
Protocol

- **MCD 200** AP ASCII
- **MCD 500** Binary
- **Address** 20
- **Data rate (bps)** 9600

Troubleshooting

| Symptom | Cause and solution |
|---|--|
| “ Unknown Device has been detected” message when the interface is first plugged in | The USB cable may be too long. Use a standard USB cable less than 3 meters long. |
| WinMaster goes offline and soft starter trips on Starter Comms | The USB cable has been unplugged. Ensure the cable is plugged in at both ends, then bring WinMaster back online. |
| WinMaster locks up when online. Log view indicates comms failure and a change to offline mode | Severe external electrical disturbance or equipment failure. Reconnect the USB cable, the close and restart WinMaster. Bring WinMaster online. If the problem persists, contact your local supplier. |

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References

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