

# VLT® Compact Starter MCD 200

The VLT® Compact Starter MCD 200 from Danfoss includes two families of soft starters in the power range from 7.5 to 110 kW.



The series offer easy DIN rail mounting for sizes up to 30 kW, 2-wire or 3-wire start/stop control and excellent starting duty ( $4 \times I_e$  for 6 seconds).

Heavy starting ratings at  $4 \times I_e$  for 20 seconds.

Compatible with grounded delta power systems.

**Power range:**  
7.5 – 110 kW

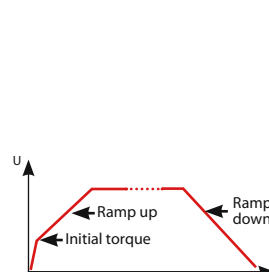
Feature	Benefit
Small footprint and compact size	– Saves panel space
Built-in bypass	– Minimises installation cost and eliminates power loss – Reduces heat build up. Savings in components, cooling, wiring and labor
Advanced accessoires	– Allows enhanced functionality
Advanced SCR Control Algorithms balances output waveform	– Allowing more starts per hour, accepting higher load
<b>User friendly</b>	<b>Save commissioning and operating cost</b>
Easy to install and use	– Saves time
Easy DIN rail mounting for sizes up to 30 kW	– Saves time and space
<b>Reliable</b>	<b>Maximum uptime</b>
Essential motor protections (MCD 202)	– Reduces overall project investment
Max. ambient temperature 50° C without derating	– No external cooling or oversizing necessary

## Perfect

match for:

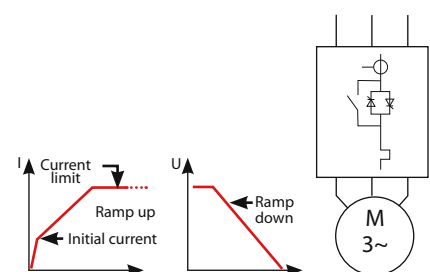
- Pumps
- Fans
- Compressors
- Mixers
- Conveyors
- and many more

### MCD 201



### MCD 202

MCD 202 provides enhanced soft start functionality and various motor protection features



## Soft Starter for motors up to 110 kW

- Total motor starting solution
- Start, stop and protection features
- Local programming keypad and display

### Optional:

- Modules for serial communication:
  - DeviceNet
  - Profibus
  - Modbus RTU
  - USB
- Remote operator kit
- PC software
- Pump application module



## Remote operator kit

Remote Operator and display with 4–20 mA analogue output proportional to motor current (MCD 202)  
 Serial communication: Modbus RTU, AS-i, Profibus and DeviceNet.  
 PC-based MCD set-up software.

## Specifications

Mains supply (I1, L2, L3)	
Supply voltage	3 x 200 VAC – 440 VAC or 3 x 200 – 575 VAC
Supply frequency	45 – 66 Hz
Control voltage	100 – 240 VAC 380 – 440 VAC 24 VDC/24 VAC
Control inputs	
Control inputs	Start, Stop Reset upsh button on the unit
Relay outputs	
Relay outputs	1 x main contactor 1 x programmable* (Trip or Run)
Protections, MCD 201	
	Phase sequence Supply fault Shorted SCR
Protections, MCD 202	
	Motor thermistor input Motor temperature – thermal model Phase imbalance Phase sequence Excess start time Supply fault Shorted SCR
LED indications	
Indications	Ready/Fault Run
Ambient operating temperature	
Ambient temperature	-5 to 60°C (above 40°C without derating)
Standards approvals	
Approvals	CE, UL, C-UL, CCC, C-tick, Lloyds



## Cabinet sizes

Power range (400 V)	7 – 30 kW	37 – 55 kW	75 – 110 kW
Height [mm]	203	215	240
Width [mm]	98	145	202
Depth [mm]	165	193	214