

Fact Sheet

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 offers easy DIN rail mounting for sizes up to 30 kW, 2-wire or 3-wire start/stop control and excellent starting duty (4 x I_e for 6 seconds).

Heavy starting ratings at 4x I_e for 20 seconds.

Compatible with grounded delta power systems.

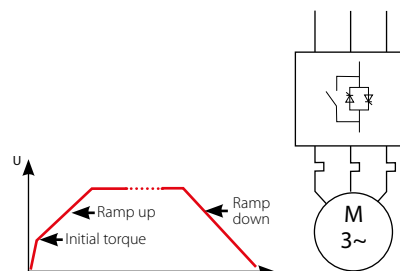
Power range
7.5 – 110 kW

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 accessories	– Allows enhanced functionality
Advanced SCR Control Algorithms balances output waveform	– Allowing more starts per hour, accepting higher load
User friendly	Save commissioning and operating cost
Easy to install and use	– Saves time
Easy DIN rail mounting for sizes up to 30 kW	– Saves time and space
Reliable	Maximum uptime
Essential motor protection (MCD 202)	– Reduces overall project investment
Max. ambient temperature 60° C without derating	– No external cooling or oversizing necessary

Superior

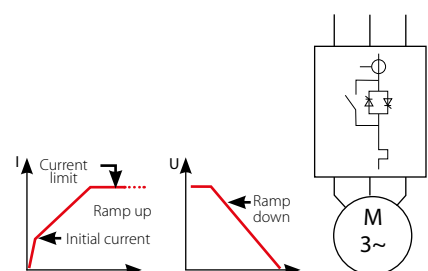
start performance,
compared to TVR
controllers

VLT® Compact Starter MCD 201



VLT® Compact Starter 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

Options

- Modules for serial communication:
 - DeviceNet
 - EtherNet/IP
 - PROFIBUS
 - Modbus RTU
 - USB
- Remote operator kit
- PC software
- Pump application module



Remote operator kit

Remote Operator and display with 4–20 mA analog output proportional to motor current (MCD 202).



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 push 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	-10 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