Fact Sheet

VLT® Soft Starter MCD 600 Enclosed
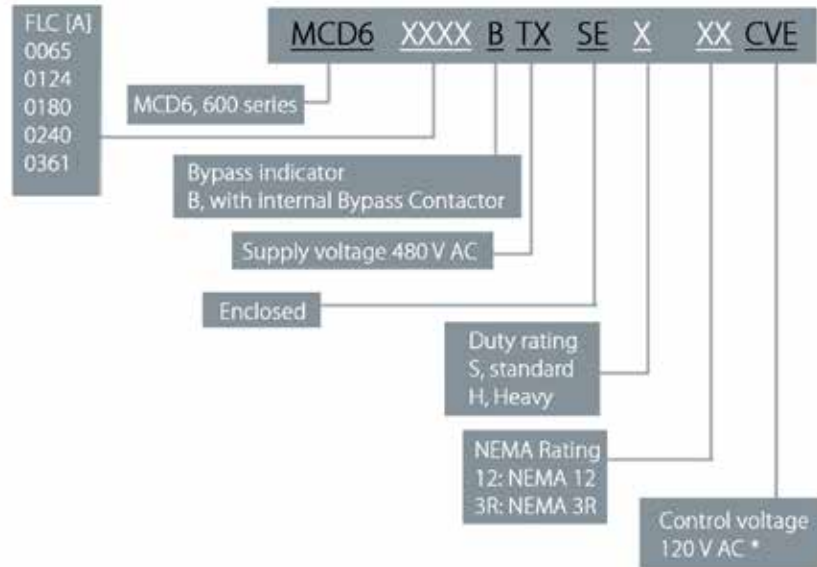## designed to make life **easier**

NEMA 12　　　*NEMA 3R*

The Danfoss MCD 600 enclosed soft starter is designed to make your life easier. This prepackaged, combination soft starter includes a built-in circuit breaker and bypass contactor in a compact, NEMA 12 enclosure. Door mounted operators & pilot devices are standard, including an easy-to-use HMI/keypad with graphical display and quick setup menus. The MCD 600 offers the latest in soft start motor control and protection for superior performance in fixed-speed applications. The HMI/keypad has a graphical, multi-line display with real-time graphing of motor operating performance. An extensive event log (up to 348 individual events recorded) and dynamic QR code onscreen display provide all the data you need, when you need it.

Standard and heavy duty models are available to meet your specific application needs including NEMA 3R enclosures as an option. Optional communication cards enable network connections and the USB port allows straightforward upload, download and storage of starter performance information are also available.

Product Range

- Standard stock models: 480V up to 300HP

Others available upon request

Typecode selector

480V AC input voltage prewired to a 120V AC step down transformer which provides the 120V AC Control Voltage

MCD600 - Enclosed Soft Starter Package
Available in both Standard & Heavy Duty ratings

Part Number	Typecode	Rating	Enclosure	Motor HP (nominal) at 480V	Max FLC (A)	Circuit Breaker Rating (amps)	Enclosure Dimensions (H x W x D in)
132H2250	MCD60065BTXSES12CVE	SD	NEMA 12	50	65	100	
132H2261	MCD60065BTXSEH12CVE	HD	NEMA 12	50	65	125	
132H2255	MCD60065BTXSES3RCVE	SD	NEMA 3R	50	65	100	
132H2266	MCD60065BTXSEH3RCVE	HD	NEMA 3R	50	65	125	24 x 20 x 12
132H8440	MCD60124BTXSES12CVE	SD	NEMA 12	100	124	200	
132H8445	MCD60124BTXSEH12CVE	HD	NEMA 12	100	124	200	
132H8443	MCD60124BTXSES3RCVE	SD	NEMA 3R	100	124	200	
132H8447	MCD60124BTXSEH3RCVE	HD	NEMA 3R	100	124	200	
132H2252	MCD60180BTXSES12CVE	SD	NEMA 12	150	180	300	
132H2263	MCD60180BTXSEH12CVE	HD	NEMA 12	150	180	300	
132H2257	MCD60180BTXSES3RCVE	SD	NEMA 3R	150	180	300	
132H2268	MCD60180BTXSEH3RCVE	HD	NEMA 3R	150	180	300	
132H2253	MCD60240BTXSES12CVE	SD	NEMA 12	200	240	400	36 x 30 x 16
132H2264	MCD60240BTXSEH12CVE	HD	NEMA 12	200	240	400	
132H2258	MCD60240BTXSES3RCVE	SD	NEMA 3R	200	240	400	
132H2269	MCD60240BTXSEH3RCVE	HD	NEMA 3R	200	240	400	
132H8442	MCD60361BTXSES12CVE	SD	NEMA 12	300	361	600	
132H8446	MCD60361BTXSEH12CVE	HD	NEMA 12	300	361	600	
132H8444	MCD60361BTXSES3RCVE	SD	NEMA 3R	300	361	600	
132H8448	MCD60361BTXSEH3RCVE	HD	NEMA 3R	300	361	600	

Standard Duty Combo Starter Package 350% for 30s, 4 starts / hour at 40° C. Integral, shunt rated bypass contactor.
Heavy Duty Combo Starter Package 450% for 30s, 4 starts / hour at 50°. Integral, shunt rated bypass contactor.
NOTE: For lead time and availability please consult the factory. Additional power options will be available with future releases.

Mains voltage range

- 3 x 480 VAC

Current range and enclosure

- NEMA 12 65 - 361A (nominal)
- NEMA 3R 65 - 361A (nominal)

Additional features

- Advanced start, stop and protection features
- Auto start/stop clock
- Compact size
- DC injection braking
- 4-line graphical display
- Multiple programming setup menus

Available options

- Fieldbus communication cards:
  - EtherNet/IP
  - PROFINET
  - Modbus TCP
  - PROFIBUS
  - DeviceNet
  - Modbus RTU

- Application card
  - Smart Pump

- PC software:
  - WinStart
  - VLT® Motion Control Tool MCT 10

Feature	Benefit
Quick Application Setup	– Easy commissioning
Simulation Mode	– Easy and fast testing during installation and commissioning – No need for line power
Automatic Timers and Schedulers	– Fast and easy automation – No need for external logic or timers
Power Through	– Minimal downtime on-site – Retain most control and protection capabilities
Emergency Mode	– Continued operation in emergency situations
USB Port	– Easy data retrieval without the need for PC or network No need for an adaptor or cable
Pluggable Terminals	– Fast installation and unit exchange
Construction	– NEMA 12 standard, NEMA 3R optional – Integral bypass contactor and circuit breaker – Control power transformer
Operator Devices	– Hand/Off/Auto switch – Pushbuttons and indicator light – Door mounted HMI
Mains configuration	
Input voltage	480V (model dependant)
Input frequency	50-60 Hz
Motor ratings	
HP range	10-300HP @ 480V
Control connection	
Control Voltage Communications	Control power transformer included Modbus RTU, Profibus, DeviceNet, Modbus TCP, ProfiNet, Ethernet IP option cards
Ratings	
Ambient operating temperature	Standard duty up to 40°C (350% for 30 sec) Heavy duty up to 50°C (450% for 30 sec)
Protection Rating	
	NEMA 12 standard NEMA 3R optional
Door Mounted Devices	
	Keypad/HMI / Start/stop / reset push buttons Indicator lights (run/power, on/fault)
Certifications	
UL /cUL	UL508A Service entrance rated

VLT® Control Panel LCP 601

- Features:
  - Graphical, multi-line display
  - Real-time graphing
  - Full parameter list, Quick Menu and application setup
  - Adjustable multiple monitoring views