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ENGINEERING
TOMORROW

Danfoss

Danfoss VLT® Soft Starter **The single speed drive**

3–1600 A

For any soft start situation. VLT® Soft Starters cover the full range – from simple start-stop operation to high end performance.

www.danfossdrives.com

VLT®
THE REAL DRIVE

Soft starts: Protects processes, products and equipment with smooth motor control

An AC motor switched directly on to the mains power supply will struggle to reach its nominal speed as quickly as possible.

This draws maximum current from the power supply and accelerates the application with its maximum torque. Depending on the application, this can cause different problems.

Applications like pumps, conveyers, centrifuges and bandsaws must be started slowly, and sometimes stopped slowly, to prevent mechanical shocks such as water hammer, and strains on bands, couplings and shafts.

Principle of Phase Angle Control

A soft starter is an electronic device that regulates the voltage to the motor and this provides a smooth transition from standstill to full speed operation of the application.

VLT® Soft Starters all use the principle of phase angle control: Back-to-back coupled thyristors ramp up the motor voltage.

In some VLT® Soft Starters, current transformers measure the motor current, providing feedback for starting current control but also for numerous motor and application protection functions.

VLT® Soft Starters cover a comprehensive range

Soft starting and stopping can be controlled in a number of ways depending on the application. Some applications require non-linear voltage ramp-up and the voltage ramp is therefore related to the actual current drawn. Conversely, a band-saw usually requires a quick stop function provided by a DC brake.

Then again, a number of applications require a kick-start torque for an instantaneous period of time followed by a soft ramp-up acceleration. VLT® Soft Starters cover all of these applications and much more.



VLT® Soft Starter MCD 500

- Fully featured Soft Starter for motors up to 1100 HP
- Total motor starting solution
- Advanced protection features
- Adaptive Acceleration Control
- Inside Delta connection
- 4 line graphical display
- Multiple programming setup menus

VLT® Compact Starter MCD 200

- Compact Soft Starter for motors up to 150 HP
- Voltage ramps, current limit start and integrated motor protection
- Integral bypass design reduces heat dissipation
- Wide power range with advanced accessory modules

VLT® Soft Starter MCD 100

- Micro Soft Start controller for motors up to 15 HP
- Extremely robust SCR design with heavy ratings as standard
- Unlimited number of starts per hour
- Contactor style design for easy selection, installation and commissioning



VLT® Soft Starter MCD 500

VLT® Soft Starter MCD 500 is a total motor starting solution. Current transformers measure motor current and provide feedback for controlled motor ramp profiles.

AAC, the Adaptive Acceleration Control, automatically employs the best starting and stopping profile for the application. Adaptive Acceleration Control means that for each start and stop, the soft starter compares and adapts the process to the chosen profile best suited to the application.

The VLT® Soft Starter MCD 500 has a four-line graphical display and a logic keypad making programming easy. Advanced setup is possible displaying operational status.

Three menu systems: Quick Menu, Application Setup and Main Menu provide optimum programming approach.

The perfect solution, also for more severe applications:

- Pumps
- Conveyors
- Fans
- Mixers
- Compressors
- Centrifuges
- Mills
- Saws
- And many more

Power range

21 – 1600 A, 10-1100 HP
(1.2 MW inside Delta Connection)
Versions for 200 – 690 VAC



Features	Benefits
User friendly	
AAC Adaptive Acceleration Control	– Automatically adapts to the chosen starting and stopping profile
Adjustable bus bars allow for both top and bottom entry on 360-1600 amp models (200-1100 HP)	– Space saving, less cable cost and easy retrofitting
DC injection braking distributed evenly over three phases	– Less installation cost and less stress on the motor
Inside Delta (6-wire connection)	– Smaller soft starter can be selected for the application
Log menus, 99 events and trip log provide information on events, trips and performance	– Eases analysis of the application
Auto Reset	– Less down-time
Jog (slow-speed operation)	– Application flexibility
Second-order thermal model	– Allows motors to be used to their full potential without damage from overloading
Internal bypass contactors (21 – 215 A, 10-150 HP)	– Save space and wiring compared to external bypass – Very little heat dissipates when running. Eliminates costly external fans, wiring or bypass contactors
Auto-start/stop clock	– Application flexibility
Compact size – amongst the smallest in their class	– Saves space in cabinets and other application setups
4-line graphical display	– Optimum programming approach and setup for viewing operational status
Multiple programming setup (Standard Menu, Extended Menu, Quick Set)	– Simplifies the programming, allowing maximum flexibility
8 language display options	– Serving the whole world

Dimensions

Current rating [A]	Weight [lbs]	Height [inches]	Width [inches]	Depth [inches]	Frame size
21, 37, 43 and 53	9.25	11.61	5.90	7.20	G1
68	9.92			8.38	
84, 89 and 105	10.8				
131, 141, 195 and 215	32.8	17.24	10.82	9.84	G2
245	52.6	18.11	15.35	10.98	G3
360, 380 and 428	77	27.12	16.92	11.82	G4
595, 619, 790 and 927	100				
1200, 1410 and 1600	264			33.70	

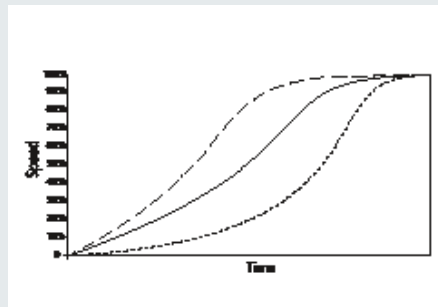
MCD 500 operation options

Starting:

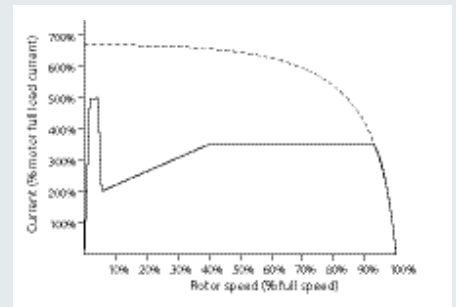
- AAC Adaptive Acceleration
- Control
- Current Ramp
- Constant Current
- Kickstart

Stopping:

- Coast to stop
- TVR soft Stop
- AAC Adaptive deceleration Control
- Brake



Three Adaptive Acceleration Control (AAC) start profiles; early, constant and late acceleration



Constant current/ current ramp – here shown with kickstart

Control Panel VLT® LCP 501



With the Control Panel VLT® LCP 501 being a full function interface, everything you can do on the VLT® Soft Starter MCD 500 is possible via the LCP 501.

The screen view set-up is selected from 8 views. Options include 7 standard and 1 user programmable view.

Language selection:

English, Chinese, German, Spanish, Portuguese, French, Italian, Russian.

The VLT® LCP 501 is connected to the MCD 500 by using a 10 ft cable using 9 pin (D-sub) plug and 10 ft cable provided with the IP 65 (NEMA 12) door-mount kit.

Once connected, the soft starter asks whether you want to copy parameters from LCP to starter or starter to LCP (if different).

100% easy connection

- The Modbus, Profibus and Device net modules use another port on the MCD 500 (at the side of the soft starter)
- Separate LCP 501 output at the bottom for 9 pin plug and 10 ft cable
- One ordering number (LCP with door-mount kit and cable)
- Plug & play connection (also if soft starter is powered up)
- One cable for power and communication
- Powered up by soft starter
- Copy of parameter set- up

VLT® Compact Soft Starter MCD 200

Danfoss VLT® Compact Soft Starter series MCD 200 includes two families of soft starters in the power range from 10 – 150 HP.

The series offers easy DIN rail mounting for sizes up to 40 HP, 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.

The perfect match for:

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

Power range:

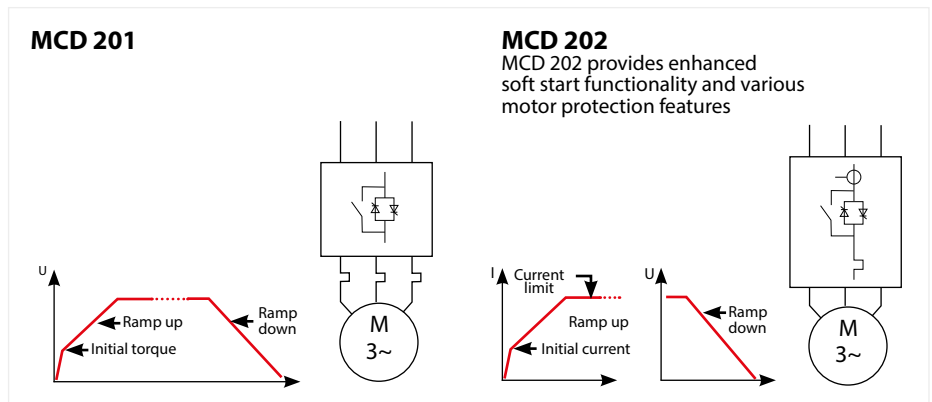
- 10 – 150 HP



Remote operation

Remote operation of MCD 201 and MCD 202 is facilitated by the dedicated remote operator kit.

The operator (IP 54/NEMA 12) is mounted on the cabinet front and allows remote control, status indication and motor monitoring of an individual VLT® Soft Starter using RS485 serial communication.



Features	Benefits
Small footprint and compact size	– Saves panel space
Built-in bypass	– Minimizes 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 balance output waveform	– Allowing more starts per hour, accepting higher load
Reliable	Maximum up-time
Essential motor protection (MCD 202)	– Reduces overall project investment
Max. ambient temperature 50°C without derating	– No external cooling or oversizing necessary
User friendly	Save commissioning
Easy to install and use	
Easy DIN rail mounting for sizes up to 40 HP	– Saves time and space



Dimensions

Power range (575 V)	10 – 40 HP	50 – 75 HP	100 – 150 HP
Height [inches]	7.99	8.46	9.44
Width [inches]	3.85	5.70	7.9
Depth [inches]	6.49	7.59	8.42

VLT® Soft Starter MCD 100

Danfoss VLT® Soft Start Controller MCD 100 is a cost effective and extremely compact soft starter for AC motors up to 15 HP, due to a unique semiconductor design.

MCD 100 is a true “fit and forget” product. Selection can be made on the basis of the motor power – exactly as with traditional contactors.

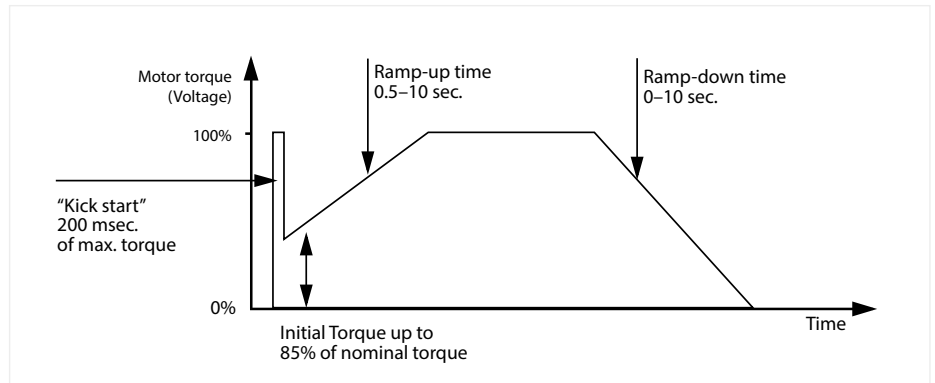
MCD 100 products provide timed voltage ramp up and down. Ramp time can be individually adjusted with rotary switches from 0.4 to 10 seconds.

The start torque can be adjusted from 0 to 85% of the direct on-line torque.

All sizes are rated for line voltage up to 600 V AC.

The perfect match for:

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



Features	Benefits
Small footprint and compact size	– Saves panel space
Selection can be based on motor power	– Easy selection
Universal control voltage	– Simplifies selection – Keeps stock at a minimum
“Fit and forget” contactor design	– Simplifies installation – Reduces required panel space
Reliable	Maximum up-time
Robust semiconductor design	– Reliable operation
Almost unlimited number of starts per hour without derating	– Prevents unauthorized changes
Max. ambient temperature 50°C without derating	– No external cooling or oversizing necessary
User-friendly	Save commissioning and operating cost
Easy to install and use	– Saves times
Digitally controlled rotary switches	– Secures precise settings and simplifies installation
Easy DIN rail mounting for sizes up to 40 HP	– Saves time and space



Dimensions

Model	Power size (HP)	Rated current (Amps)	Dimensions (inches) H x W x D	Approvals
MCD 100	2	3 A AC-53b: 4-10: 110	4.01 x 0.88 x 4.88	UL, CSA, CE
	10	15 A AC-53a: 8-3: 100-3000 AC-58a: 6-6: 100-3000	4.33 x 1.77 x 5.03	
	15	25 A AC-53a: 8-3: 100-3000 AC-58a: 6-6: 100-3000	4.33 x 3.54 x 5.03	

Serial communication

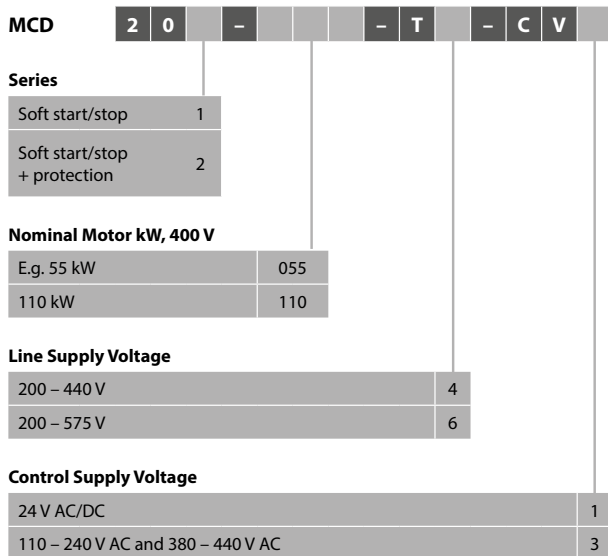
MCD 201, MCD 202 and MCD 500 come with optional plug-in modules for serial communication.

- DeviceNet
- Profibus
- Modbus RTU
- USB

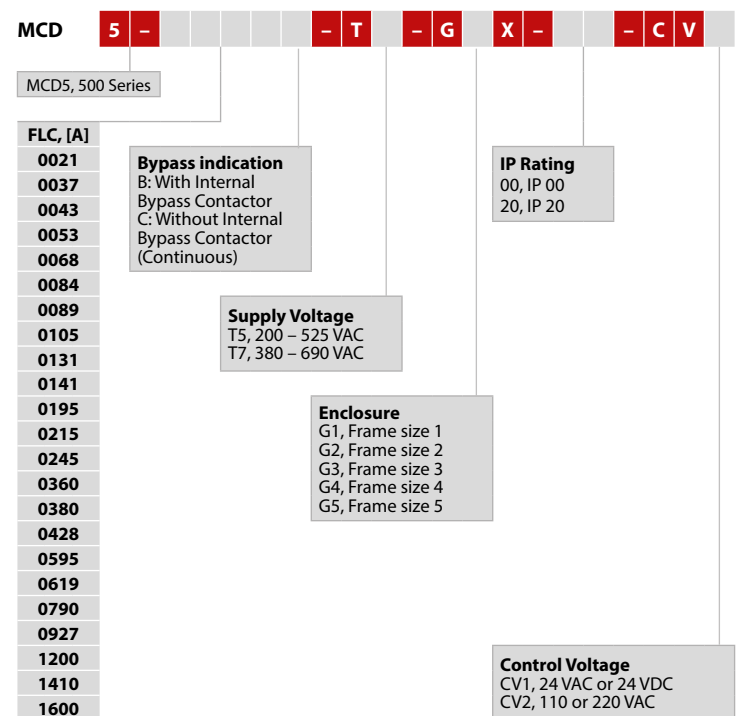
	MCD 100	MCD 201	MCD 202	MCD 500
Start/stop, reset	■	■	■	■
LED for start, run, trip	■	■	■	■
Trip codes	■	■	■	■
Current display			■	■
Motor temp. display			■	■
4 – 20 mA output			■	■
Programming keypad, graphical display				■

Ordering type codes

VLT® Compact Starter MCD 200



VLT® Soft Starter MCD 500



Size indications

Size indication for VLT® Compact Starter MCD 200

Model	Power size (HP)	Rated current AC-53b* (Amps)	Dimensions (inches) H x W x D	Approvals
MCD 201/ MCD 202	10	18 A: 4-6: 354	7.99 x 3.85 x 6.49	UL C – UL CE CCC C-tick Lloyds
	20	34 A: 4-6: 354		
	25	42 A: 4-6: 354		
	30	48 A: 4-6: 354		
	40	60 A: 4-6: 354	8.46 x 5.70 x 7.59	
	50	75 A: 4-6: 594		
	60	85 A: 4-6: 594		
	75	100 A: 4-6: 594	9.44 x 7.95 x 8.42	
	100	140 A: 4-6: 594		
	125	170 A: 4-6: 594		
150	200 A: 4-6: 594			

*Example: AC 53b: 42 A: 4-6: 354 starting current max. 4 times FLC (42 A) in 6 seconds. 354 seconds minimum between starts.

Size indication for VLT® Soft Starter MCD 100

Model	Power size (HP)	Rated current (Amps)	Dimensions (inches) H x W x D	Approvals
MCD 100	2	3 A: 5-5:10 (AC 53b)	4.01 x 0.88 x 4.88	UL, CSA, CE
	10	15 A: 8-3: 100-3000 (AC 53a)	4.33 x 1.77 x 5.03	
	15	25 A: 6-5:100-480 (AC 53a)	4.33 x 3.54 x 5.03	

Size indication for VLT® Soft Starter MCD 500

Motor size (HP) @ 400 V	Frame size code	Starts per hour	Max. FLC	Rated FLC (104 F, 3,280 ft), outside delta motor connection					
				Light 300%, 30s, Internal bypass		Medium 400%, 20s, Internal bypass		Heavy 450%, 30s, Internal bypass	
15	G1 (no fan)	10	23	21		17		15	
25		10	43	37		31		26	
30		10	50	43		37		30	
35		10	53	53		46		37	
40	G1	6	76	68		55		47	
50		6	97	84		69		58	
60		6	100	89		74		61	
75		6	105	105		95		78	
80	G2	6	145	131		106		90	
100		6	170	141		121		97	
125		6	200	195		160		134	
150		6	220	215		178		149	
Motor size (HP) @ 400 V	Frame size code	Starts per hour	Max. FLC	Not bypassed	External bypass	Not bypassed	External bypass	Not bypassed	External bypass
175	G3x	6	255	245	255	195	201	171	176
250	G4x	6	360	360	360	303	310	259	263
275		6	380	380	380	348	359	292	299
300		6	430	428	430	355	368	301	309
400		6	620	595	620	515	540	419	434
500		6	650	619	650	532	561	437	455
600		6	790	790	790	694	714	567	579
700		6	930	927	930	800	829	644	661
800	G5x	6	1200	1200	1200	1135	1200	983	1071
900		6	1410	1410	1410	1187	1319	1023	1114
1000		6	1600	1600	1600	1433	1600	1227	1353

Note: Optimise your selection with WinStart Soft Starter PC tool.

Specifications

Type	VLT® Soft Starter MCD 500	VLT® Soft Starter MCD 100
	The total motor starter solution. Provides advanced control methods for starting and stopping and protection of motor and application	A true "fit and forget" soft starter for DIN rail mount, MCD 100 provides basic soft start and stop function
Concept	Enhanced soft start and soft stop Motor and system protection 10 – 1100 HP @ 400 V (21-1600A) 200 – 690 V mains voltage 110 – 220 V AC or 24V AC/DC control supply 3-phase SCR control	Soft start Soft stop 1/3 – 15 HP @ 400 V 208 – 600 V mains voltage 24 – 480 V AC/DC control voltage 2-phase SCR control
Start/stop	Adaptive Acceleration Control (AAC) Current limit start Current ramp start Dual parameter function Kick-start Jog	Timed voltage ramp-up Adjustable start torque Selectable kick-start function
	Adaptive Deceleration Control (AAC) TVR soft stop (Timed Voltage Ramp) Coast to stop DC brake function – three phase Soft brake function	Timed voltage ramp-down
Protection	Same as MCD 202 and: Under current Current imbalance Starter overtemperature Restart delay Warning before trips Adjustable phase imbalance sensitivity – Programmable input trip – Individual phase loss trips – Individual shorted SCR trips – Int. bypass relay overload – Int. bypass relay fail Fully adjustable protections Network communication timeout Heatsink overtemperature Battery/clock failure Supply frequency External trip	
Outputs	Three programmable output relays: Programmable analogue output Motor thermistor	
Control	8 language graphical display and keypad Quick menu and application menu Buttons for start, stop, reset and remote control Inputs for two- or three-wire control Optional: Modules for serial communication Control Panel VLT® LCP 501 PC software	Universal two-wire control Programmable via 3 rotary switches
Other features	Bypass up to 150 HP Configurable bus bars from 360 A and up Operation timers Jog – slow speed operation Auto reset of fault situations Emergency run 99 event log Trip log User programmable metering and monitoring Simulation before connecting line voltage	Extremely robust SCR design for unlimited number of starts per hour, LED indication, IP 20

Type	VLT® Compact Starter MCD 201	VLT® Compact Starter MCD 202
	A physically compact starter providing basic soft start and stop functionality	Physically similar to MCD 201 but providing enhanced soft start functionality and various motor protection functions
Concept	Soft start Soft stop 10 – 150 HP @ 400 V 3 x 200 – 480 VAC (T6 model) CV1 – 24 VAC / VDC CV3 – 110-240 VAC & 380-440 VAC 2-phase SCR control	Current limit start Soft stop Motor protection 10 – 150 HP @ 400 V 3 x 200 – 480 VAC (T6 model) CV1 – 24 VAC / VDC CV3 – 110-240 VAC & 380-440 VAC 2-phase SCR control
Start/stop	Timed voltage ramp-up Adjustable initial torque Timed voltage ramp-down	Current limit start Initial current ramp-up Timed voltage ramp-down
Protection		Motor overload (adjustable trip class) Excess start time Reverse phase rotation Motor thermistor input Shorted SCR – no start Supply fault – no start Instantaneous overload
Outputs	One output relay: Line contactor control	Two output relays: Line contactor control Run contactor or trip function
Control	Two- or three-wire control Programmable via 3 rotary switches Reset push button Optional: Modules for serial communication Remote operator kit PC software	Two- or three-wire control Programmable via 8 rotary switches Reset push button Optional: Modules for serial communication Remote operator kit PC software
Other features	Integral SCR bypass for minimum physical size and heat dissipation during nominal operation LED status indication IP 20 (10 – 75 HP @ 400 V) IP 00 (100 – 150 HP @ 400 V) Protection kit available	Integral SCR bypass for minimum physical size and heat dissipation during nominal operation LED status indication IP 20 (10 – 75 HP @ 400 V) IP 00 (100 – 150 HP @ 400 V) Protection kit available

What VLT[®] is all about

Danfoss VLT Drives is the world leader among dedicated drives providers – and still gaining market share.

Environmentally responsible

VLT[®] products are manufactured with respect for the safety and well-being of people and the environment.

All activities are planned and performed taking into account the individual employee, the work environment and the external environment. Production takes place with a minimum of noise, smoke or other pollution and environmentally safe disposal of the products is pre-prepared.

UN Global Compact

Danfoss has signed the UN Global Compact on social and environmental responsibility and our companies act responsibly towards local societies.

EU Directives

All factories are certified according to ISO 14001 standard. All products fulfil the EU Directives for General Product Safety and the Machinery directive. Danfoss VLT Drives is, in all product series, implementing the EU Directive concerning Hazardous Substances in Electrical and Electronic Equipment (RoHS) and is designing all new product series according to the EU Directive on Waste Electrical and Electronic Equipment (WEEE).

Impact on energy savings

One year's energy savings from our annual production of VLT[®] drives will save the energy equivalent to the energy production from a major power plant. Better process control at the same time improves product quality and reduces waste and wear on equipment.

Dedicated to drives

Dedication has been a key word since 1968, when Danfoss introduced the world's first mass produced variable speed drive for AC motors – and named it VLT[®].

Twenty five hundred employees develop, manufacture, sell and service drives and soft starters in more than one hundred countries, focused only on drives and soft starters.

Intelligent and innovative

Developers at Danfoss VLT Drives have fully adopted modular principles in development as well as design, production and configuration.

Tomorrow's features are developed in parallel using dedicated technology platforms. This allows the development of all elements to take place in parallel, at the same time reducing time to market and ensuring that customers always enjoy the benefits of the latest features.

Rely on the experts

We take responsibility for every element of our products. The fact that we develop and produce our own features, hardware, software, power modules, printed circuit boards, and accessories is your guarantee of reliable products.

Local backup – globally

VLT[®] motor controllers are operating in applications all over the world and Danfoss VLT Drives' experts located in more than 100 countries are ready to support our customers with application advice and service wherever they may be.

Danfoss VLT Drives experts don't stop until the customer's drive challenges are solved.



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mcd100-007,480v/softstart 380-480v,7,5kw	175G4005		Buy on EAN
mcd100-011,480v/soft start,380-480v,11kw	175G4008		Buy on EAN
VLT® Compact Starter MCD 200 7 kW 18A:4-6: 354, Three phase 200-440 VAC, MCD201007T4CV3	175G5165		Buy on EAN
VLT® Compact Starter MCD 200 15 kW 34A:4-6: 354, Three phase 200-440 VAC, MCD201015T4CV3	175G5166		Buy on EAN
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VLT® Compact Starter MCD 200 90 kW 170A:4-6: 594, Three phase 200-440 VAC, MCD201090T4CV3	175G5174		Buy on EAN
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VLT® Compact Starter MCD 200 90 kW 170A:4-6: 594, Three phase 200-440 VAC, MCD202090T4CV3	175G5218	Buy on EAN
VLT® Compact Starter MCD 200 110 kW 200A:4-6: 594, Three phase 200-440 VAC, MCD202110T4CV3	175G5219	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 21A, AC53b 3-30:330, IP20 MCD50021BT5G1X20CV2	175G5525	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 37A, AC53b 3-30:330, IP20 MCD50037BT5G1X20CV2	175G5526	Buy on EAN

VLT® Soft Starter MCD 500 200-525 VAC, 43A, AC53b 3-30:330, IP20 MCD50043BT5G1X20CV2	175G5527	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 53A, AC53b 3-30:330, IP20 MCD50053BT5G1X20CV2	175G5528	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 68A, AC53b 3-30:570, IP20 MCD50068BT5G1X20CV2	175G5529	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 84A, AC53b 3-30:570, IP20 MCD50084BT5G1X20CV2	175G5530	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 89A, AC53b 3-30:570, IP20 MCD50089BT5G1X20CV2	175G5531	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 105A, AC53b 3-30:570, IP20 MCD50105BT5G1X20CV2	175G5532	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 131A, AC53b 3-30:570, IP00 MCD50131BT5G2X00CV2	175G5533	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 141A, AC53b 3-30:570, IP00 MCD50141BT5G2X00CV2	175G5534	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 195A, AC53b 3-30:570, IP00 MCD50195BT5G2X00CV2	175G5535	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 215A, AC53b 3-30:570, IP00 MCD50215BT5G2X00CV2	175G5536	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 245A, AC53a 3-30:50-6, IP00 MCD50245CT5G3X00CV2	175G5537	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 360A, AC53a 3-30:50-6, IP00 MCD50360CT5G4X00CV2	175G5538	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 380A, AC53a 3-30:50-6, IP00 MCD50380CT5G4X00CV2	175G5539	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 428A, AC53a 3-30:50-6, IP00 MCD50428CT5G4X00CV2	175G5540	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 595A, AC53a 3-30:50-6, IP00 MCD50595CT5G4X00CV2	175G5541	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 619A, AC53a 3-30:50-6, IP00 MCD50619CT5G4X00CV2	175G5542	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 790A, AC53a 3-30:50-6, IP00 MCD50790CT5G4X00CV2	175G5543	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 927A, AC53a 3-30:50-6, IP00 MCD50927CT5G4X00CV2	175G5544	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 1600A, AC53a 3-30:50-6, IP00 MCD51600CT5G5X00CV2	175G5547	Buy on EAN
VLT® Compact Starter MCD 200 7 kW 18A:4-6: 354, Three phase 200-575 VAC, MCD201007T6CV3	175G5187	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 1410A, AC53a 3-30:50-6, IP00 MCD51410CT7G5X00CV2	175G5592	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 360A, AC53a 3-30:50-6, IP00 MCD50360CT7G4X00CV2	175G5584	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 619A, AC53a 3-30:50-6, IP00 MCD50619CT7G4X00CV2	175G5588	Buy on EAN

VLT® Soft Starter MCD 500 380-690 VAC, 790A, AC53a 3-30:50-6, IP00 MCD50790CT7G4X00CV2	175G5589	Buy on EAN
VLT® Compact Starter MCD 200 55 kW 100A:4-6: 594, Three phase 200-575 VAC, MCD201055T6CV3	175G5194	Buy on EAN
VLT® Compact Starter MCD 200 45 kW 85A:4-6: 594, Three phase 200-575 VAC, MCD202045T6CV1	175G5248	Buy on EAN
VLT® Compact Starter MCD 200 110 kW 200A:4-6: 594, Three phase 200-575 VAC, MCD202110T6CV3	175G5241	Buy on EAN
VLT® Compact Starter MCD 200 90 kW 170A:4-6: 594, Three phase 200-575 VAC, MCD202090T6CV3	175G5240	Buy on EAN
VLT® Compact Starter MCD 200 30 kW 60A:4-6: 354, Three phase 200-575 VAC, MCD202030T6CV1	175G5246	Buy on EAN
VLT® Compact Starter MCD 200 22 kW 48A:4-6: 354, Three phase 200-575 VAC, MCD202022T6CV1	175G5245	Buy on EAN
VLT® Compact Starter MCD 200 18 kW 42A:4-6: 354, Three phase 200-575 VAC, MCD202018T6CV1	175G5244	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 0396A, IP00 MCD50396BT5G3X00CV2	134N9353	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 131A, AC53b 3-30:570, IP00 MCD50131BT5G2X00CV1	175G5508	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 141A, AC53b 3-30:570, IP00 MCD50141BT5G2X00CV1	175G5509	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 21A, AC53b 3-30:330, IP20 MCD50021BT5G1X20CV1	175G5500	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 105A, AC53b 3-30:570, IP20 MCD50105BT5G1X20CV1	175G5507	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 105A, AC53b 3-30:570, IP20 MCD50105BT7G1X20CV2	175G5578	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 43A, AC53b 3-30:330, IP20 MCD50043BT7G1X20CV2	175G5573	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 53A, AC53b 3-30:330, IP20 MCD50053BT7G1X20CV2	175G5574	Buy on EAN
VLT® Compact Starter MCD 200 22 kW 48A:4-6: 354, Three phase 200-440 VAC, MCD203022T4CV3	175G5300	Buy on EAN
mcd100-001,480v/softstart 400-480v,1,5kw	175G4002	Buy on EAN
mcd100-011,230v/soft start 208-230v,11kw	175G4007	Buy on EAN
VLT® Compact Starter MCD 200 45 kW 85A:4-6: 594, Three phase 200-575 VAC, MCD201045T6CV1	175G5204	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 84A, AC53b 3-30:570, IP20 MCD50084BT7G1X20CV1	175G5553	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 53A, AC53b 3-30:330, IP20 MCD50053BT7G1X20CV1	175G5551	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 37A, AC53b 3-30:330, IP20 MCD50037BT5G1X20CV1	175G5501	Buy on EAN

VLT® Soft Starter MCD 500 200-525 VAC, 43A, AC53b 3-30:330, IP20 MCD50043BT5G1X20CV1	175G5502	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 53A, AC53b 3-30:330, IP20 MCD50053BT5G1X20CV1	175G5503	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 68A, AC53b 3-30:570, IP20 MCD50068BT5G1X20CV1	175G5504	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 84A, AC53b 3-30:570, IP20 MCD50084BT5G1X20CV1	175G5505	Buy on EAN
mcd100-001,230v/softstart 208-230v,1,5kw	175G4000	Buy on EAN
VLT® Compact Starter MCD 200 90 kW 170A:4-6: 594, Three phase 200-575 VAC, MCD201090T6CV3	175G5196	Buy on EAN
VLT® Compact Starter MCD 200 75 kW 140A:4-6: 594, Three phase 200-575 VAC, MCD201075T6CV3	175G5195	Buy on EAN
VLT® Compact Starter MCD 200 45 kW 85A:4-6: 594, Three phase 200-575 VAC, MCD201045T6CV3	175G5193	Buy on EAN
VLT® Compact Starter MCD 200 30 kW 60A:4-6: 354, Three phase 200-575 VAC, MCD201030T6CV3	175G5191	Buy on EAN
VLT® Compact Starter MCD 200 22 kW 48A:4-6: 354, Three phase 200-575 VAC, MCD201022T6CV3	175G5190	Buy on EAN
VLT® Compact Starter MCD 200 15 kW 34A:4-6: 354, Three phase 200-575 VAC, MCD201015T6CV1	175G5199	Buy on EAN
VLT® Compact Starter MCD 200 15 kW 34A:4-6: 354, Three phase 200-440 VAC, MCD202015T4CV1	175G5221	Buy on EAN
VLT® Compact Starter MCD 200 7 kW 18A:4-6: 354, Three phase 200-440 VAC, MCD202007T4CV1	175G5220	Buy on EAN
VLT® Compact Starter MCD 200 22 kW 48A:4-6: 354, Three phase 200-440 VAC, MCD202022T4CV1	175G5223	Buy on EAN
VLT® Compact Starter MCD 200 18 kW 42A:4-6: 354, Three phase 200-440 VAC, MCD202018T4CV1	175G5222	Buy on EAN
VLT® Compact Starter MCD 200 37 kW 75A:4-6: 594, Three phase 200-440 VAC, MCD202037T4CV1	175G5225	Buy on EAN
VLT® Compact Starter MCD 200 30 kW 60A:4-6: 354, Three phase 200-440 VAC, MCD202030T4CV1	175G5224	Buy on EAN
VLT® Compact Starter MCD 200 7 kW 18A:4-6: 354, Three phase 200-575 VAC, MCD201007T6CV1	175G5198	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 380A, AC53a 3-30:50-6, IP00 MCD50380CT7G4X00CV2	175G5585	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 141A, AC53b 3-30:570, IP00 MCD50141BT7G2X00CV2	175G5580	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 195A, AC53b 3-30:570, IP00 MCD50195BT7G2X00CV2	175G5581	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 428A, AC53a 3-30:50-6, IP00 MCD50428CT7G4X00CV2	175G5586	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 595A, AC53a 3-30:50-6, IP00 MCD50595CT7G4X00CV2	175G5587	Buy on EAN

VLT® Soft Starter MCD 500 380-690 VAC, 245A, AC53a 3-30:50-6, IP00 MCD50245CT7G3X00CV2	175G5583	Buy on EAN
VLT® Compact Starter MCD 200 55 kW 100A:4-6: 594, Three phase 200-440 VAC, MCD202055T4CV1	175G5227	Buy on EAN
VLT® Compact Starter MCD 200 45 kW 85A:4-6: 594, Three phase 200-440 VAC, MCD202045T4CV1	175G5226	Buy on EAN
VLT® Compact Starter MCD 200 15 kW 34A:4-6: 354, Three phase 200-575 VAC, MCD201015T6CV3	175G5188	Buy on EAN
VLT® Compact Starter MCD 200 18 kW 42A:4-6: 354, Three phase 200-575 VAC, MCD201018T6CV3	175G5189	Buy on EAN
VLT® Compact Starter MCD 200 55 kW 100A:4-6: 594, Three phase 200-575 VAC, MCD202055T6CV3	175G5238	Buy on EAN
VLT® Compact Starter MCD 200 75 kW 140A:4-6: 594, Three phase 200-575 VAC, MCD202075T6CV3	175G5239	Buy on EAN
VLT® Compact Starter MCD 200 37 kW 75A:4-6: 594, Three phase 200-575 VAC, MCD202037T6CV3	175G5236	Buy on EAN
VLT® Compact Starter MCD 200 45 kW 85A:4-6: 594, Three phase 200-575 VAC, MCD202045T6CV3	175G5237	Buy on EAN
VLT® Compact Starter MCD 200 22 kW 48A:4-6: 354, Three phase 200-575 VAC, MCD202022T6CV3	175G5234	Buy on EAN
VLT® Compact Starter MCD 200 30 kW 60A:4-6: 354, Three phase 200-575 VAC, MCD202030T6CV3	175G5235	Buy on EAN
VLT® Compact Starter MCD 200 15 kW 34A:4-6: 354, Three phase 200-575 VAC, MCD202015T6CV3	175G5232	Buy on EAN
VLT® Compact Starter MCD 200 18 kW 42A:4-6: 354, Three phase 200-575 VAC, MCD202018T6CV3	175G5233	Buy on EAN
VLT® Compact Starter MCD 200 110 kW 200A:4-6: 594, Three phase 200-440 VAC, MCD202110T4CV1	175G5230	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 141A, AC53b 3-30:570, IP00 MCD50141BT7G2X00CV1	175G5557	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 105A, AC53b 3-30:570, IP20 MCD50105BT7G1X20CV1	175G5555	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 89A, AC53b 3-30:570, IP20 MCD50089BT7G1X20CV1	175G5554	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 89A, AC53b 3-30:570, IP20 MCD50089BT5G1X20CV1	175G5506	Buy on EAN
VLT® Compact Starter MCD 200 55 kW 100A:4-6: 594, Three phase 200-575 VAC, MCD202055T6CV1	175G5249	Buy on EAN
mcd100-007,230v/softstart 208-230v,7,5kw	175G4004	Buy on EAN
VLT® Compact Starter MCD 200 75 kW 140A:4-6: 594, Three phase 200-440 VAC, MCD202075T4CV1	175G5228	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 790A, AC53a 3-30:50-6, IP00 MCD50790CT5G4X00CV1	175G5518	Buy on EAN
VLT® Compact Starter MCD 200 7 kW 18A:4-6: 354, Three phase 200-575 VAC, MCD202007T6CV3	175G5231	Buy on EAN

VLT® Soft Starter MCD 500 200-525 VAC, 215A, AC53b 3-30:570, IP00 MCD50215BT5G2X00CV1	175G5511	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 195A, AC53b 3-30:570, IP00 MCD50195BT5G2X00CV1	175G5510	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 595A, AC53a 3-30:50-6, IP00 MCD50595CT5G4X00CV1	175G5516	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 428A, AC53a 3-30:50-6, IP00 MCD50428CT5G4X00CV1	175G5515	Buy on EAN
VLT® Soft Starter MCD 500 200-525 VAC, 380A, AC53a 3-30:50-6, IP00 MCD50380CT5G4X00CV1	175G5514	Buy on EAN
VLT® Compact Starter MCD 200 90 kW 170A:4-6: 594, Three phase 200-440 VAC, MCD202090T4CV1	175G5229	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 68A, AC53b 3-30:570, IP20 MCD50068BT7G1X20CV2	175G5575	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 84A, AC53b 3-30:570, IP20 MCD50084BT7G1X20CV2	175G5576	Buy on EAN
VLT® Soft Starter MCD 500 380-690 VAC, 131A, AC53b 3-30:570, IP00 MCD50131BT7G2X00CV2	175G5579	Buy on EAN