



Product overview



VLT® AutomationDrive FC 300

An extremely flexible and cost-effective drive suitable for all industry applications – from simple speed control to dynamic servo applications.

- 0.25 - 3.7 kW, 200 - 240V and 0.37 - 7.5 kW, 380 - 500V, 550 - 600V
- Built-in DC coils and RFI-filter (optional)
- Bookstyle IP20/IP21/NEMA 1/ IP4X top and IP55/NEMA 12
- Integrated Smart Logic Controller, (USB and RS485) as standard
- Integrated optional communication options (Profibus DP/V1, DeviceNet, CanOpen and more)
- Integrated optional additional I/O (digital I/O's, encoders, (incremental, absolut, sin/cos, resolver))
- Integrated PLC option according to IEC 61161-3



VLT® 2800 Series

An extremely compact series of drives prepared for side-by-side mounting and developed specifically for the low power market.

- 0.37 - 2.2 kW, 200 - 240V and 0.55 - 18.5 kW, 380 - 480V
- Multipurpose
- Side-by-side mounting in any direction
- Built-in PID controller, RFI-filter and DC coils
- Bookstyle IP20
- Integrated RS 485 interface as standard
- Integrated Profibus (optional)



VLT® 5000 Series

The perfect match for an abundance of industrial applications not least in process industries.

- 0.75 - 37 kW, 200 - 240V and 0.75 - 400 kW, 380 - 500V and 0.75 - 160 kW, 550 - 600V
- Book style and compact enclosures IP00, IP20 and IP54
- Quick Menu for easy commissioning and operation
- Enhanced software and hardware options
- Extensive range of fieldbus options



VLT® 5000 Flux

The VLT® 5000 Flux is an extension of the existing VLT® 5000 series. Ready to be connected to a PC.

- 0.75 - 37 kW, 200 - 240V and 0.75 - 400 kW, 380 - 500V and 0.75 - 160 kW, 550 - 600V
- Analogue and digital outputs separated
- Additional input for disabling output power stage
- Family concept in programming and power hardware
- Torque response time < 3 ms. Speed response time < 2 ms
- Full benefit of using SyncPos option board functionality
- Encoder surveillance, also at still stand



VLT® 6000 HVAC

The VLT® 6000 HVAC is fully dedicated to the optimum operation of HVAC applications. It offers energy savings and user-friendliness, and all functions are built in.

- 1.1 - 45 kW, 200 - 240V and 1.1 - 450 kW, 380 - 640V and 0.75 - 200 kW, 550 - 600V
- HVAC applications
- Available in IP54 enclosure with internal RFI-filter and DC inductors
- Built-in serial communication
- Automatic switching frequency modulation and energy optimization



VLT® 8000 AQUA

The VLT® 8000 has been designed to operate in the water and waste water market.

- 4 - 45 kW for 200 - 230V and 4 - 400 kW for 380 - 480V, 1.1 - 200 kW for 550 - 600V
- Maximise up-time
- User friendly with build-in alphanumeric display, quick menu and auto-tuning function
- Allows 300 meter motor cables
- Automatic Motor Alternation
- DC Inductions for lower harmonics
- Cascade Controller option



VLT® DriveMotor FCM 300

The VLT® DriveMotor FCM 300 is a combined frequency converter and motor in one.

- 0.55 - 7.5 kW 3 phase 380 - 480V
- Pre-set adaptation between drive and motor giving precise and energy efficient control
- Meets the EMC directive
- IP55 enclosure, optionally IP56 and IP66
- RS 485 protocol as standard and Profibus as built in option



VLT® Decentral FCD 300

The VLT® Decentral FCD 300 is a complete frequency converter designed for decentral mounting.

- 0.37 - 3,3 kW
- Mounted on the wall close to the motor, or directly on the motor
- IP66, a corrosion resistant coating
- CE, also IEC 61000-3-2, UL, and C-tick
- Twin part design makes commissioning and service easy



VLT® Decentral Motor Starter DMS 300

The DMS 300 is the decentral motor switch with integrated Soft-start functionality completing the product range for decentral drive solutions where no variable speed is required.

- Power range to 3 kW
- Flexibility in mounting on a surface close to the motor or directly on the motor
- IP66; a corrosion resistant coating
- Twin part design makes commissioning and service easy
- Integrated fieldbus AS-Interface as option



VLT® Soft Starter MCD 3000

The MCD 3000 is a total motor starting solution providing all the best in soft starter functionality. It offers high end functionality what ever it is for starting, stopping or protection of motor or application.

- 7.5 - 800 kW, versions for 200 - 690 VAC
- Current limit soft start with initial current ramp up
- Four different auto-adjustable ramp down profiles
- Numerous motor protection features
- Manual or remote control and pass word protection of parameters



VLT® Compact Starter MCD 200

The MCD 200 is a compact and cost effective soft starter range for applications where direct-on-line starting is undesirable. MCD 200 is due to its size and functionality a good alternative to other reduced voltage starting methods such as start/delta starters.

- 7.5 - 100 kW, versions for 200- 575 VAC
- Voltage ramps or current limit ramp soft start
- Build-in motor protection
- Compact design with internal bypass system for minimum power loss
- Add on modules for remote operation and serial communication



VLT® Harmonic Filter AHF 005/010

Easily & Effective Harmonic distortion reduction by connecting the AHF 005/010 harmonic filter in front of a Danfoss frequency converter.

- AHF 005 reduces total harmonic current distortion to 5%
- AHF 010 reduces total harmonic current distortion to 10%
- Small compact housing that fits into a panel
- Easy to use in retrofit applications
- User-friendly start-up – no adjustment necessary
- No routine maintenance required



VLT® Motion Control Tool MCT10

For Managing Drive Parameter in systems the new Motion Control Tool MCT10 is the perfect tool to handle all Drive related Data. Offers a large number of improvements over the previous tool VLS Dialog tool:

The MCT10 offers you:

- Project orientation, one file that contains all Parameters settings plus User defined documents
- Explorer like view, give the user a low learning Curve
- SyncPos programming under the same environment, one PC toll for all tasks
- Online and offline commission
- Support of different interfaces RS485, RS232, USB and Profibus (plus more to come)
- Import of Drive setting from Windows and DOS version of Dialog



EtaSolution series K

EtaSolution series K geared motors are combinations of geared motors and frequency converters. They provide compact drive solutions with infinite speed control.

- Saving space and costs
- No shielded motor cables required
- Optimized combination of VLT drive and geared motor
- Motor power range 0.12 up to 7.5 kW
- Supply voltage 3 x 380 - 480V
- Compliance to all EMC standards
- Highly cost efficient Profibus interface



Helical-Geared Motor BG series

Compact and economical inline helicalgeared motors designed to do practically without service.

- Motor powers from 0.03 to 45 kW
- 13 gearbox sizes for torques from 20 to 18500 Nm
- New attachment possibilities with low design height
- Completely closed, sealed against dust and water spray
- Protection class IP65 in compliance with DIN 40050 and IEC 34-5/529



Shaft-Mounted Geared Motor – BF series

Shaft-mounted geared motors with integrated torque arm are easily integrated and economically applied.

- Mounted gearbox with integral torque arm
- Motor powers from 0.03 to 45 kW
- 10 gearbox sizes for torques from 90 - 18500 Nm
- Completely closed, sealed against dust and water spray
- Protection class IP65 in compliance with DIN 40050 and IEC 34-5/529



Bevel-Geared Motor BK series

Power-dense, right-angle, bevel-geared motors ensure the highest efficiency especially when used with frequency inverters.

- The right angle gearbox with universal attachment possibilities
- Motor powers from 0.03 to 45 kW
- 10 gearbox sizes for torques from 80 - 18500 Nm
- Completely closed, sealed against dust and water spray
- Protection class IP65 in compliance with DIN 40050 and IEC 34-5/529



Worm-Geared Motor BS series

Economical, right-angle, worm-geared motors install easily in the tightest applications.

- The right angle gearbox for restricted mounting conditions and high gear ratio
- Motor powers from 0.03 to 5.5 kW
- 8 gearbox sizes for torques from 25 to 1000 Nm
- Hollow shaft version already available from 25 Nm
- Completely closed, sealed against dust and water spray
- Protection class IP65 in compliance with DIN 40050 and IEC 34-5/529



Monorail Geared Motor Drives BM series

A completely new range of monorail drives for light and heavy load monorail applications.

- Flexible mounting on the running gear
- Built-on brake – fast and easy servicing
- Enclosure IP65 as standard
- Double output shaft makes it ideal for floor conveyors
- Improved efficiency – lower energy consumption – ideal as travelling gear
- Reverse motion of the gearbox is possible



Bauer Aseptic Drive

Geared motors for the food and the beverage industries (and other business areas with intensive cleaning or dusty environments).

- Geared motor without cooling ribs and fan
- Motor power 0.37 to 1.1 kW S3
- Available with bevel, helical, worm, and shaft gears
- Motor coils are built as Iso class F with thermistor
- Standard enclosure is IP66, with a corrosion resistant coating
- Motor terminals for standard plugs. Stainless steel motor connection class IP67

Danfoss also delivers flange motors based on the above motor series.