



VLT® Automation Drive FC 301 / FC 302

The VLT® AutomationDrive is designed for variable speed control of all asynchronous motors and permanent magnet motors. It comes in a standard version (FC 301) and an advanced high dynamic version (FC 302) with additional functionalities. It helps save energy, increase flexibility, reduce costs related to spare parts and servicing, and optimize process control on any industrial machine or production line.

The VLT AutomationDrive is built on a flexible, modular design concept to provide versatile control. Its robust construction ensures maximum uptime. It comes equipped with a wide range of standard industry features which can be expanded with 'plug-and-play' options. The user-friendly graphical control panel ensures the drive is easy to set up and operate saving commissioning and operating costs.

Enclosures are available up to IP 66 (depending on the model). Integrated DC chokes and RFI filters in all models protect installations by minimizing harmonic distortion and electromagnetic interference.

The VLT AutomationDrive can also be used with applications that need to perform high-precision positioning and synchronization operations. The Integrated Motion Controller (IMC) functionality is now configurable in the drive's software. No additional modules or hardware are necessary.

All drives are fully tested already at the factory. They require very little maintenance and provide a fast return on investment.

Supply voltages and power range

- 3 x 200-240 V...0.25-37 kW
- 3 x 380-500 V...0.37 kW – 1.1 MW
- 3 x 525-600 V...0.75-75 kW
- 3 x 525-690 V...1.1 kW – 1.4 MW

Low harmonic drive

- 3 x 380-480 V...132-710 kW

12-pulse drive

- 3 x 380-690...250-1200 kW



Features and benefits

- There's less need for cooling or oversizing as the ambient temperature is 50°C without derating
- The need for PLC capacity is reduced thanks to Smart Logic Control
- Low lifetime costs are ensured as the drive is highly resistant to wear and tear
- The lifetime of electronics is prolonged due to back-channel cooling for frames D, E and F
- Commissioning and upgrades are easy due to plug-in technology
- High-precision position and synchronization thanks to availability of Integrated Motion Controller throughout the entire product range
- Features such as intelligent heat management, Safe stop and Safe Torque Off ensure safe and energy-efficient operation of the drive

Applications

Conveyors, positioning and synchronizing, cranes, mixers, centrifuges and palletizing and packaging machinery.

PC tools

VLT® Motion Control Tool MCT 10
VLT® Motion Control Tool MCT 31
Danfoss ecoSmart
Danfoss HCS (Harmonic Calculation Software)
Danfoss Servo Sizer
VLT® Energy Box

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