

# The Altivar<sup>®</sup> 312 drive

Designed to make industrial and commercial machines more efficient, while at the same time simplifying its integration into a single control system architecture.



Make the most of your energy<sup>SM</sup>

**Schneider**  
Electric



The highest overtorque and  
the only drive with a remote  
graphical keypad in its class

# Optimize your machine control

Ideally suited to the needs of material handling, packaging, food, beverage, pump, fan and other OEM machines, the Altivar 312 variable frequency drive offers the highest overtorque and is the only drive with a remote graphical keypad in its class. It delivers performance and reliability in a product that is easy to set up, use and integrate, allowing you to improve machine design, decrease cost of ownership and accelerate time to market.

## Open Communication

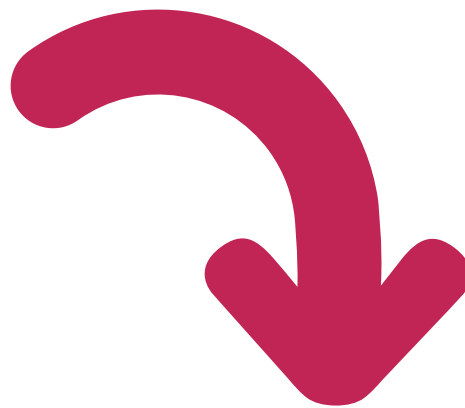
The Altivar 312 drive comes standard with integrated communication ports for Modbus® and CANopen networks, and optional cards for CANopen Daisy Chain, DeviceNet and Profibus DP networks.

## Ultra Reliable

The Altivar 312 drive comes with coated cards (IEC 60721-3-3 Classes 3C2 and 3S2) and can withstand temperatures ranging from -10° C to 50° C without derating, even when installed side-by-side. Its integrated EMC (electro-magnetic compatibility) also minimizes power disturbances and electrical interference.

## Easy to Set up

Autotuning, multi-loaders and 50 pre-loaded application functions to manage common facility processes make set up and installation a breeze. The intuitive navigation, remote graphical keyboard and Bluetooth capability further enhance your ability to optimize machine control from day one.



# Simple to control

The Altivar 312 drive redefines the concept of “ease of use” by integrating the best-in-class features from the entire family of Altivar drives into its user interface. This starts with an intuitive rotary wheel for navigation and adjustments, as well as large control buttons on the face of the drive, protected by a snap-lock seal. You can also use advanced features such as the same graphical keypad used with the Altivar 61 and 71 drives, the new LED display of the Altivar 12 drive or even bluetooth wireless technology and your mobile phone.



## Use your mobile phone to configure your Altivar 312 drive



### Efficiency with An All-in-one Solution

- Download and transfer configurations
- Drive adjustment and maintenance
- Send and receive configuration files locally or remotely in a matter of seconds

### Safety and Confidentiality

- Monitor and adjust your machine from a secure location
- Bypass the physical hazards and security constraints to access your machines via the bluetooth wireless connection
- You don't even need to open the enclosure!
- Save changes or reinstall saved configurations whenever you want

### Simplicity and Comfort

- Work in comfort using bluetooth wireless communication
- Take advantage of user-friendly SoMove™ Mobile dialogue functions
- You know which menu you are in at any time
- Share configuration files via MMS or email

# Simple to connect



▲ Multiloader stores configurations for multiple drives



▲ Bluetooth compatible

The Altivar 312 drive integrates seamlessly into your architectures and communicates with all control system products to optimize machine performance. It offers numerous communications options, including Modbus and CANopen as well as option cards for CANopen Daisy Chain, DeviceNet and Profibus DP.

Other standard features of the product, such as auto-tuning, the multi-loader, an integrated EMC filter and the ability to mount multiple drives side-by-side without derating, further add to the time and cost savings you'll receive by incorporating the Altivar 312 drive into your control system.

## A Common Platform

The Schneider Electric SoMove™ software enables you to prepare, test and transfer the files for drive configuration. You can then load those configurations in two ways:

- Direct from PC to drive using a USB/RJ45 cable or bluetooth wireless network
- Without a PC, via an SD memory card using multi-loader

Duplicate the configuration using Schneider Electric's simple loader and multi-loader, or the Altivar 312's bluetooth interface. The multi-loader stores configurations of several drives on a standard SD memory card and allows you to simply load it directly into your PC or drive. The simple loader maintains the settings of single drive for transfer.



◀ Simple-loader allows you to quickly load the same configurations on several machines

Universal communication tools and networks for your control system architecture via the RJ45 port



# Your machine, your industry, your solution!



## Materials Handling

- Variable speed
- Brake sequence
- Motor switching
- Management of limit switches
- Switching frequency up to 16 kHz
- Current limitation
- Linear ramps, S, U or customized
- Second ramp



## Packaging and Packing

- Brake sequence
- Output contactor control
- Accessible DC bus



## Food and Beverage

- High starting torque
- Pre-set speeds
- Communication network capabilities



## Automotive

- High starting torque
- Communication network



## Pumps, Ventilation

- PI regulator and reference, automatic/manual
- Automatic restart
- Stop modes in the event of a fault
- Limitation of low speed operating time
- Detection of current, torque and thermal state thresholds of drive and motor



## Textile Machines

- 16 preset speeds
- $\pm 10$  V bipolar input reference
- PI regulator



## Other Machine Functions

- Current limitation
- Catch on the fly
- Controlled stop on loss of line supply
- Derated operation
- Protection of machine by locking parameters
- Multiple assignment of logic inputs
- Saving a set of parameters
- Management of external faults
- Display of parameters: current, power, torque, speed, frequency, etc.

# Get to know the Altivar 312 variable speed drive

## Robust Legacy

- All the advantages of Altivar 31 drive
- Excellent resistance to harsh environments (50° C)
- Coated cards as standard (IEC 60721-3-3 Classes 3C2 and 3S2)
- Excellent resistance to power supply and motor interference

## Horsepower Range

- 0.25 HP to 20 HP

## Large Voltage Range

- Single-phase 200 V to 240 V
- Three-phase 200 V to 240 V
- Three-phase 380 V to 500 V
- Three-phase 525 V to 600 V

## Compliance with Specific Requirements

- UL Type 1 kit
- Integrated Class 2 EMC filter for radiated and conducted emissions
- Positive and negative logic
- DIN rail mounting

## Standards and Certifications

- EC/EN 61800-5-1
- IEC/EN 61800-3 (Environments 1 and 2, C1 to C3)
- UL, CSA, CE, C-Tick, NOM and GOST



Perfect for asynchronous motors, the Altivar 312 drive offers a wide range of products to meet your safety requirements and international standards.



[www.us.Schneider-Electric.com/Drives](http://www.us.Schneider-Electric.com/Drives)

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