User-friendly and communicative!

Altivar 312
Variable speed drives for three-phase asynchronous motors, 0.18 to 15 kW at up to 600 V
Altivar 312 range
Designed for robustness and compatibility with the control system architectures of your machines

User-friendly
Open
Compatible
Economical

Enhanced communication:
• CANopen Daisy Chain, DeviceNet, Profibus DP

Simplified user interface:
• Setup via mobile phone (Bluetooth®)
• Intuitive navigation
• Local control on the front panel

Numerous application-specific functions

Auto-tuning for maximum performance

Integrated EMC filter

Rugged for use in all environments
Increased performance for industrial machines

- Materials handling and packaging
- Packing
- Textile machines
- Special machines
- Pumps and fans

Up to 30% more performance compared to the market average
Special functions for each type of machine

**Materials handling**
- +/- speed
- Brake sequence
- Motor switching
- Management of limit switches
- Switching frequency up to 16 kHz
- Current limitation
- Linear ramps, S, U or customised
- Second ramp

**Packaging and packing**
- Brake sequence
- Output contactor control
- Accessible DC bus

**Textile machines**
- 16 preset speeds
- +/-10V bipolar input reference
- PI regulator

**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

**Special machines**
- Current limitation
- Catch on the fly
- Controlled stop on loss of line supply
- Derated operation

**Other options**
- 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.

50 application-specific functions listed in the catalogue
Simplicity to boost the performance of your machines

**Increased productivity**
- Reduced design and installation costs thanks to the SoMove software workshop
- Auto-tuning saves setup time and optimises performance
- Full mechanical and software compatibility with the Altivar 31 in event of replacement
- The compact size means smaller enclosures (integrated EMC filter and side-by-side mounting without derating)

**Remote HMI terminals**
- Same as Altivar 61 and 71
- Plain text in your language
- Same as Altivar 12
- LED display

**Universal communication tools and networks** for your control system architectures via the RJ45 port.

**Local control on the front panel**
- Ergonomically designed button for simple navigation
- Run/Stop commands on the device
- Snap-lock seal

**Customisable marking plate**
Communication with your control system architectures

Altivar 312 integrates transparently into your architectures and communicates with all control system products:
- Modbus and CANopen are integrated as standard
- Option cards: CANopen Daisy Chain, DeviceNet, Profibus DP
- Gateways for Ethernet/Modbus and Fipio/Modbus

A global range with universal product references:
Altivar 312 accompanies your machines wherever they travel in the world.
User-friendliness expressed through dialogue

A common platform
Duplicate the configuration using the many common tools available for Altivar and Lexium series 2: Simple Loader, Multi-Loader, graphic interface, SoMove software workshop, Bluetooth interface and mobile phone software.

Preparation of files
The SoMove software workshop enables the design office to prepare the files for drive configuration.

2 methods for loading the configuration:
• Direct from PC to drive using a USB/RJ45 cable
• Without a PC, via an SD memory card using Multi-Loader

Equipment testing
The SoMove software workshop serves as a dynamic debugging tool for your machine. The oscilloscope function is extremely useful when making adjustments.

Multi-Loader configuration tool
The configurations of several drives are stored on a standard SD memory card. Simply load it directly into your PC or insert into the Multi-Loader, which can be used as a card reader.

Simple Loader duplication tool
Copy the settings from a configured drive and duplicate on all your machines.

Save Time
when setting up the device: using Multi-Loader, you can select and transfer the required file in a matter of seconds.
Use your mobile to configure your Altivar 312

**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 all the usual physical 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 the user-friendly SoMove Mobile™ dialogue functions
- You know which menu you are in at any time
- Share configuration files via MMS or email

Altivar Innovation
Remote configuration to update settings by mobile or PC via Bluetooth.
A wide range of products meeting safety and international standards

A robust legacy
- All the advantages of Altivar 31
- 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

Large voltage range
- Single-phase 200 to 240 V with an integrated C2 EMC filter and optional C1 filter
- Three-phase 200 to 240 V
- Three-phase 380 to 500 V with integrated C2 EMC filter
- Three-phase 525 to 600 V

Compliance with specific requirements
- Integrated Class 2 EMC filter for radiated and conducted emissions
- Local control integrated in the drive (programmable)
- Positive and negative logic
- DIN rail mounting
- UL Type 1 kit

Standards and certifications
EC/EN 61800-5-1, IEC/EN 61800-3 (environments 1 and 2, C1 to C3), CE, UL, CSA, C-Tick, NOM, GOST
Make the most of your energy!

up to 30% energy saving