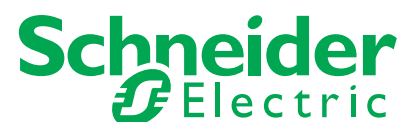


# Altivar® 12 drive

Save time, money and energy with the only compact drive that offers best-in-class motor performance, a ten-year service life and an intuitive user interface in an attractive design, so good looking it's suitable for consumer and industrial machines – that's the Schneider Electric Altivar 12!



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



# Big Things for Small Machines

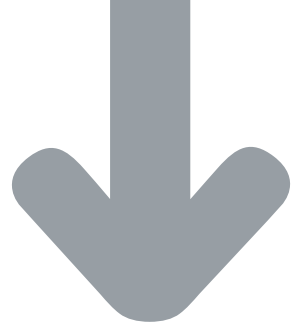
The Altivar 12 drive is superior to other drives in its class and helps you save time and money by offering:

- Exceptional starting and stopping motor performance – this eliminates the need to oversize the drive or add dynamic braking in most applications
- A world-class user interface – an intuitive rotary adjustment and navigation button provides fingertip access that is more common in high-end drives; it also features the ability to program the drive with the power off in its own packaging, which makes setup simple, easy and safe
- Power and reliability in a compact package – this gives the Altivar 12 drive the versatility to handle applications from simple to complex across a wide variety of sectors, even in harsh environments
- A new generation of components that are designed for a ten-year service life – this adds to your machine life, lowers maintenance costs and improves customer satisfaction (results based on MTBF data)

All of this is in addition to the improved performance and reduced energy consumption you receive from the use of a variable speed drive. Make the Altivar 12 drive your choice for simple machine control and make reliability and performance your go to market strategy.



- Small
- Intuitive
- Reliable
- High-performance



### Variable speed drives for three-phase asynchronous motors:

- 0.25 HP to 1 HP, 120 V single-phase power supply
- 0.25 HP to 3 HP, 240 V single-phase power supply
- 0.25 HP to 5 HP, 240 V three-phase power supply



#### Small

- The compact size and advanced functions of the Altivar 12 drive mean that it can easily replace any existing drive in its category



#### Ecological

- An average of 30% energy savings for the majority of applications
- Less cardboard to be recycled – only one box is used for bulk orders



#### Economical

- Design – save time by using the SoMove software
- Commissioning – quicker configuration with the power off download function
- Wiring and mounting – quicker and easier installation with integrated Modbus® communication



# Combining efficiency with intelligence

The Altivar 12 drive is particularly suitable for use in applications involving simple industrial machines or consumer machines. Its compact size, high performance and attractive design make it ideal for use in the following sectors:



- The food industry (kitchen ventilation hoods, bagging machines, bakers' kneading machines, greenhouses ventilation, etc.)
- Small handling applications (car washes, conveyors, packaging, etc.)
- The medical and health sector (medical beds, fitness machines)
- Machines with a single-phase socket (wood-working machines, surface polishing and cleaning machines, swimming pool or irrigation pumps, hydromassage bathtubs, etc.)
- Renewable energy applications (solar, wind, geothermal, etc.)
- Simple mechanical applications (2-speed motors, DC motors, mechanical drives, etc.)

## A design focussed on integration

- Upgrade your machines and make them more competitive – with its advanced functions (integrated PID, multi-speed) the Altivar 12 drive increases your productivity
- Communicate easily with all the other parts of your machine via the integrated universal Modbus serial link
- Reduce the depth of your equipment – the base plate mounted version dissipates heat into the machine frame



### Sturdy

- New generation of components (ten-year service life under normal operating conditions)
- Conformal coated circuit boards to reduce damage from airborne contaminants
- Good immunity to power disturbances to keep your process running



### Easy to identify

- All the identification markings on the product are on a hinged door on the front panel
- Easy identification of the connections



### Fast

- With the multi-loader console you can configure ten drives in their packaging in less than five minutes, with no power supply



### Versatile

- The Altivar 12 drive range is designed for 120 V to 240 V power supplies

# Choose peace of mind

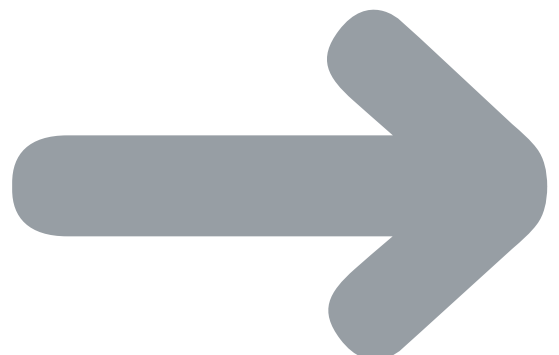
The Altivar 12 drive integrates as standard all the technologies that will make you forget it is there. Its design and choice of components make the Altivar 12 drive an extremely efficient, reliable and durable drive.



Practical, recyclable packaging. You can configure your product in its packaging using optional multi-loader tool.

## No compromise on quality

- Higher performance for your motors assured by:
  - Factory settings provide high quality motor performance without adjustment for most applications
  - Flexible motor control options for various mechanical requirements (volts/Hz, SVC, Quadratic)
  - Superior starting and stopping torque even without optional dynamic braking
  - Excellent speed regulation on machine load surges
- Reduces noise and maintenance:
  - No fan on models up to 1 HP (0.75 kW) at 240 V
  - Thermally controlled fan operates only when required
- Designed for easy installation and wiring of the drive:
  - Screwdriver is the only tool required
  - Power terminals not tightened, comes ready for wiring
  - Easy access angles to simplify mounting
  - Easy to identify markings
- Fast detection and protection against the motor current peaks associated with certain applications (motor switching, catching-on-the-fly, etc.)
- Built-in EMC filter with single phase 240 V units to reduce interference on nearby equipment



# Save time, save money, simplify setup and commissioning

The Altivar 12 drive streamlines setup by adding simple and intuitive tools to make your job easier. Using our optional multi-loader, you can configure the drive with the power off, even while it is still in its packaging. And because it's battery powered, very easy to use and requires no special training, you can streamline a job that once took hours by a qualified technician to just a few minutes by anyone on your team. Custom jobs can then be configured via the user-friendly wheel on the faceplate.



Use SoMove software to custom your menus and save time during operation (possible for up to 25 parameters)

## Save time on commissioning

- The drive can be configured before it is received (by the distributor), in storage or during fitting, before the electrical enclosure is powered up for the first time
- Minimal or no adjustment is required
- SoMove software is multilingual and can be downloaded free of charge from [www.schneider-electric.com](http://www.schneider-electric.com)
- Intuitively select the functions you need from the menu
- Bluetooth option can be use to connect to PC

## Save time on programming

- A navigation button for easy menu access – you can set the parameters of your application with just a few clicks
- Three programming modes help locate the parameters you want to see or adjust:
  - Reference Mode – In local operation (on/off buttons) and for speed adjustment and display
  - Monitoring Mode – For displaying parameters
  - Configuration Mode – For configuring your applications and settings
- Save time on wiring
  - Easy access to all the wiring and adjustment functions on the front panel via a sealable hinged door
  - Integrated EMC filter in 240 V single-phase versions
  - No need to remove the terminal cover to wire the power section
  - Only one screwdriver is needed for wiring both the control and power sections
  - Less wiring used due to the integrated Modbus communication's built-in EMC filter
- Contractor style top-to-bottom wiring: Line connections at the top, motor connections at the bottom for easy retrofit of existing starters (including soft start and reversing)



# Talk to someone you can trust

With the most complete power, control and automation solution, including the full line of Altivar drives, Schneider Electric is ready to meet your need for better, more effective motor control. As a leader in energy efficient drives and a pioneer in machine automation, we continue to deliver innovative new ways of adding value, efficiency and performance to your machine solutions.


This ability has earned us a reputation for dependability, reliability and trust that is the defining characteristic of Schneider Electric team members from around the world. This includes product specialists, industry experts, distributors, partners and the countless other members of the Schneider Electric family.

Whatever you need Schneider Electric has the solution. Contact your local sales representative today to learn how Schneider Electric can improve operational performance and help your business to achieve a competitive advantage.

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

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