

Designing technology that frees you from technical tasks

Small + Intuitive
Reliable + High-performance

With the Altivar 12, you get greater reliability and simplicity of operation and save even more time for all your applications.



- The smallest drive with integrated EMC for compact machines
- Ever more intuitive and user-friendly programming and menus
- Can be configured in complete safety with the power off, even in its packaging
- A design that can withstand even the harshest environments
- Quick and simple to set up
- With no compromise on quality, and components designed to last 10 years

Collaborative design
We surveyed our customers and users to determine their needs. The result is the innovative Altivar 12.

Make the most of your energy

Schneider Electric Industries S.A.S.

Head Office
89, Bd Franklin Roosevelt
92504 Rueil-Malmaison
FRANCE

www.schneider-electric.com

ART : 835853

Due to possible changes in standards and equipment, the features described in this document in the form of text and images are subject to confirmation by Schneider Electric.
Designed and created by: Gavrinis
Photos: Schneider Electric

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Discreet in size but big on performance!



Altivar 12

Variable speed drives for three-phase asynchronous motors:
0.18 to 0.75 kW, 120 V single-phase power supply
0.18 to 2.2 kW, 240 V single-phase power supply
0.18 to 4 kW, 240 V three-phase power supply

Schneider
Electric

Combining efficiency with intelligence

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

- The food industry (ventilation of catering kitchens, bagging machines, bakers' kneading machines, greenhouses, etc.)
- Small handling applications (car washes, conveyors, 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.)
- New markets (solar applications, 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 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 baseplate mounted version dissipates heat into the machine frame



Choose peace of mind

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

No compromise on quality

- Ever higher performance for your motors assured by:
 - The factory settings, which provide a high quality drive from the very first time the power is turned on
 - The integration of Standard (U/f), Performance (sensorless flux vector control, or SVC) and Pump/Fan (quadratic profile Kn²) control profiles
 - High dynamic performance on acceleration as well as on braking
 - Excellent speed regulation on machine load surges
- Reduced noise and maintenance:
 - No fan on models up to 0.75 kW at 240 V
 - Cassette type fan, operates automatically on detection of specific temperature setting
- Designed for easy fitting and wiring of the drive:
 - A single tool
 - Power terminals not tightened, ready for wiring
 - Easy access angles
 - Numerous, easy to identify markings
- Fast detection and protection against the motor current peaks associated with certain applications (motor switching, catching on the fly, etc.)
- Perfect integration of single-phase 240 V model into the electrical network thanks to its built-in EMC filter



The fan, which is the only wearing part, can be changed without the need for any tool.



Practical, recyclable packaging. You can configure your product in its packaging without breaking the guarantee seal.



Sturdy

- New generation long-life components (10-year service life under normal operating conditions)
- Cards are coated as standard and resistance to disturbed power supplies has been increased to withstand harsh environments



Easy to identify

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

Communicate intuitively with all your applications

The Altivar 12 is immediately operational. It is configured using the notched wheel or from the SoMove software workshop. The file that is generated can be downloaded to the product even while it is still in its packaging, using the Multi-Loader console. You save commissioning time so that you can spend more time doing your job.

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 needed for wiring both the control and power sections
- Less wiring due to the integrated Modbus communication

Save time on programming

- A navigation button for easy menu access: you can set the parameters of your application with just a few clicks
- A three-level tree structure
 - 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 commissioning

- The drive can be configured before it is received (by the distributor), during storage (by the storekeeper) or during fitting before the electrical enclosure is powered up for the first time
- No adjustment is required and there is a quick start guide for immediate setup
- Work in the language of your choice with the SoMove software workshop that can be downloaded free of charge from www.schneider-electric.com
- Select the functions you need from the menu
- Bluetooth option for PC for greater ease of use



Fast

With the Multi-Loader console you can configure 10 drives in their packaging is less than 5 minutes, with no power supply!



Versatile

The Altivar 12 range is designed for 120 to 240 V power supplies. For your productivity requirements in the most varied applications, see the complete Altivar® range on our website: www.schneider-electric.com



Small

The small format and advanced functions of the Altivar 12 mean that it can easily replace any existing drive in its category.



Economical

- Design: Save time by using the SoMove software workshop
- Commissioning: Quicker configuration with the power off download function
- Wiring and mounting: Quicker and easier installation with integrated Modbus communication



Ecological

- An average of 30% energy savings (with the Pump/Fan control profile) for the majority of applications
- Less cardboard to be recycled - only one box is used for bulk orders



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