

Simplify your applications with engineered drive solutions



Altivar 61 Plus / Altivar 71 Plus

Low voltage variable speed drive solutions
from 90 to 2,400 kW

Safe drives with high performance

The enclosed drive solutions, Altivar 61 Plus and Altivar 71 Plus, complete the well known range Altivar 61 and Altivar 71 offering :

- high level of performance, focusing on high power ratings,
- easy configuration,
- ready-to-use and flexible solutions meeting your application needs,
- reliable equipment, designed with optimised cooling system,
- coordination of components tested and approved under full load conditions.

With these pre-engineered drive solutions you save time when

- quoting,
- ordering,
- installing and
- commissioning.

Additional services for configuration, maintenance and training are available on request.

	Altivar 71 Plus	Altivar 61 Plus
Your applications:	• Conveyor belts • Mixers • Extruders • Crane drives	• Fans • Pumps • Compressors • Screw feeders
Our solutions:	• Controlled torque • High starting torque • Dynamic braking • Safety functions • Quick start up	• Catch on fly • Low motor noise • Power monitoring • Best efficiency • High power rating

Customised solutions ready-to-use

Optimised cooling system

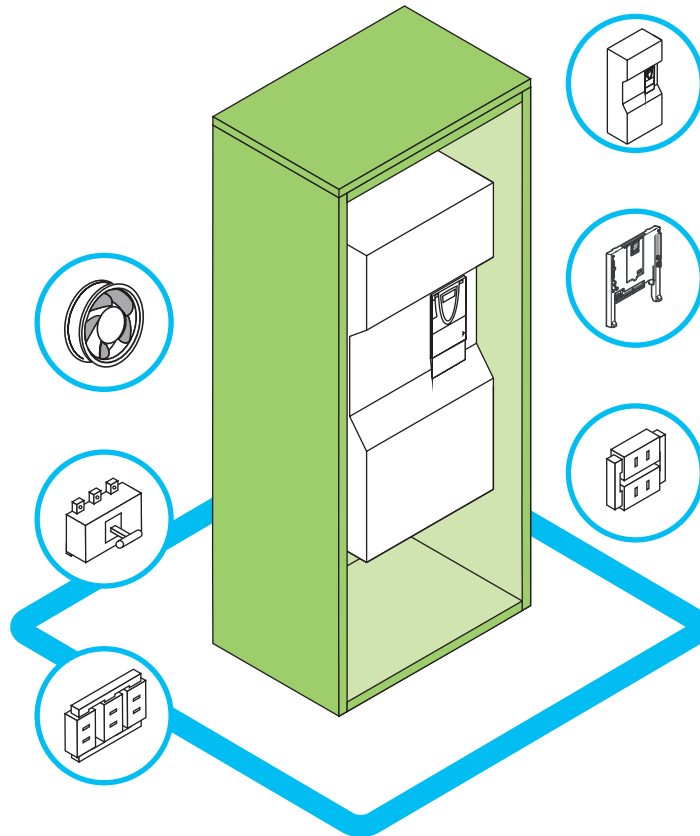
Filterless power cooling for high degree of protection

High protection

Drive and power circuit are protected by Schneider Electric components

Mastered harmonics

Reduction in harmonic is integrated for best total drive efficiency



Simplified choice

Selection of the drive according to the application

Flexible control

Easy integration into the existing machine or system control

Protected motor

Best motor protection in accordance with the design of the motor

Altivar 61/71 Plus combines exceptional performance and advanced functions, yet maintains the emphasis on simplicity of use. Products are open to be adapted to your applications and ready to be integrated into your system.

It meets your requirements for protection, ensuring that your equipment works correctly, particularly when sited close to the motor.



Simple

The modular system of Altivar 61/71 Plus offers a simple configuration in line with the real customer requirements and guarantees quick installation of the enclosure.



Up to 50%

energy saved with speed control



Make the most of your energy!

High degree of protection

Altivar 61/71 Plus range is well protected for use in harsh environmental conditions.

- IP54 with separate air flow is a proven solution for preventing of getting dust inside the drive.
- Fully encapsulated power electronics prevents influences of external polluted air.
- Most of drive losses can be extracted from the electrical room using an external heat exchanger.



Ready to use

Altivar 61/71 Plus are delivered ready for connection, which reduces wiring costs and ensures quick installation and setup of the drive. They have been designed to provide optimum functionality. Even in a compact unit, there is still ample space to connect the cables.

Extra extensions can be added using the spacious control panels.



**Less than
1 year**

return on investment for the additional cost of a 12-pulse supply with a 3-winding instead of a 2-winding transformer by increasing total efficiency.

Mastered harmonics

All Altivar 61/71 Plus drives are equipped with components to reduce harmonics. Depending on your local requirements and power range, these can take the form of a line reactor, DC choke, 12 / 18 / 24 pulse rectification, passive filter or active compensation of harmonics. For the power range above 400kW, a 12-pulse supply is the most efficient solution to reduce harmonics and to get best drive efficiency.



More environment friendly

The Altivar 61/71 Plus range is eco-designed for its total life cycle.

Ready-assembled enclosure for flexible and safe solution

Wide range in power and voltage class

- Altivar 61 Plus: 90...2,400 kW, 380...690 V
- Altivar 71 Plus: 90...2,000 kW, 380...690 V

The right protection degree for your environment

- IP23 or use in electrical rooms
- IP54 compact design for use in the plant
- IP54 version with separate filterless power cooling, recommended for dusty environment
- IP55 fully protected with water cooling

The basic version is well equipped with:

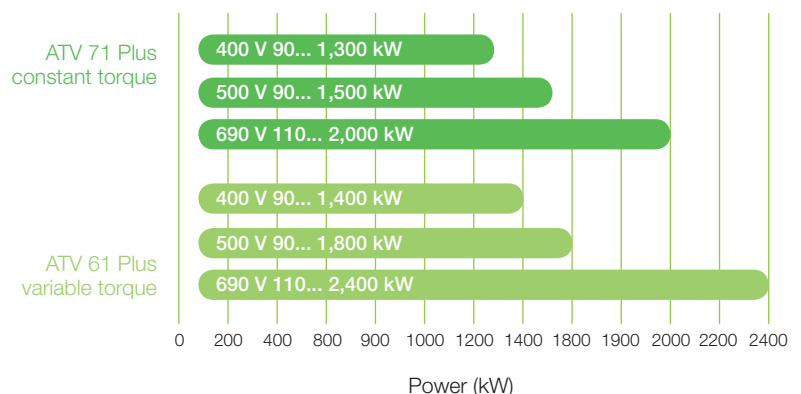
- Sarel "Spacial 6000" enclosure
- Main switch and fast-acting fuses
- AC line reactor or DC choke
- The variable speed drive
- Remote graphic display in the door
- Motor- and control terminals



Standard enclosures to meet
most of your requirements

Power range

With ATV 61 Plus and 71 Plus you increase the performance list of ATV 61 and 71 with improved protections, complete control- and power circuit and with additional power ratings up to 2,400 kW.



Efficient

Modularity in mechanical and electrical design guaranties low total costs for installation and operation.

Customise your enclosure with ready-assembled options:

- Logic I/O and Fieldbus cards
- Encoder interface cards
- 24 V power supply terminals
- Terminal extension
- Emergency stop button
- Preventa safety relay
- PTC/Pt100 relay
- Key switch
- Control voltage transformer
- Circuit breaker
- Voltmeter and Ammeter
- Motor filter
- Sinus motor filter
- Braking unit
- Air conditioning
- Motor standstill heating control
- Motor external fan control
- Enclosure heating
- Enclosure lighting
- 200 mm plinth



A specific offer for special needs

Flexible offer on demand

Customer requests not substituted by the long list of ready-assembled options can be offered by an individual design.



Standard air-cooled enclosures with internal cooling circuit

Customised enclosures for specialized requirements



Reliable

High reliability and safe operation due to well tested and best protected enclosure units.

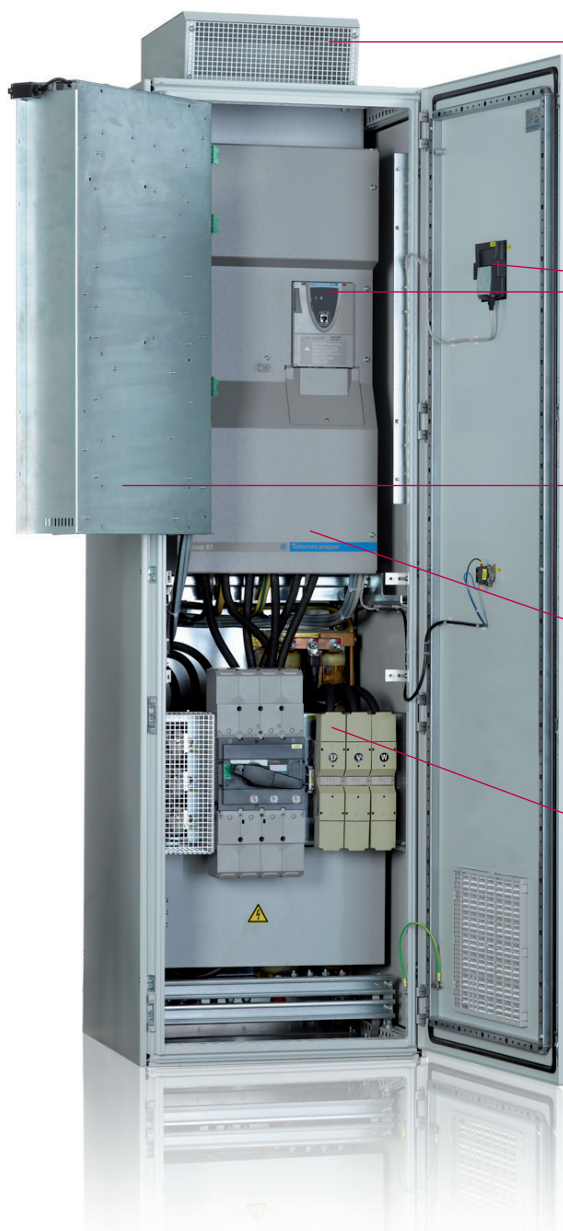


Safe

ATV 61/71 Plus is certified for safety applications according to EN 945-1 category 3 and for installations with ATEX motors.

Wide power range from 90 to 2,400 kW

From 90 to 800 kW



Reliability

Tested and approved cooling system with optimised air flow guidance.

Flexibility for programming & communication requirements

Graphic terminal with customisable display and many field-bus options for easy integration in your automation system.

Flexibility for control requirements

Large and swiveling control panel for customisation of drive control.

Easy maintenance

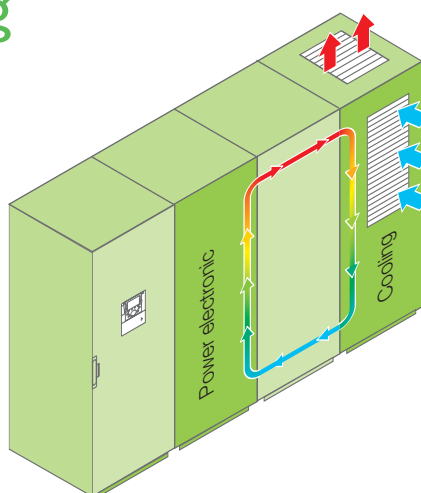
Inverter mounted on rails.

Flexibility for application requirements

Incoming/Outgoing section configurable according to customer needs.

Innovative cooling system for low operating cost

Solutions from 800 to 2,400 kW



Solution 1:

Internal cooling

Fully encapsulated power electronic by use of an internal cooling circuit gives best protection in harsh environment.

From 800 to 2,400 kW



Reliability

Tested and approved air or water cooling system with internal cooling circuit.

Easy maintenance

Modular design of power stage and rectifier.

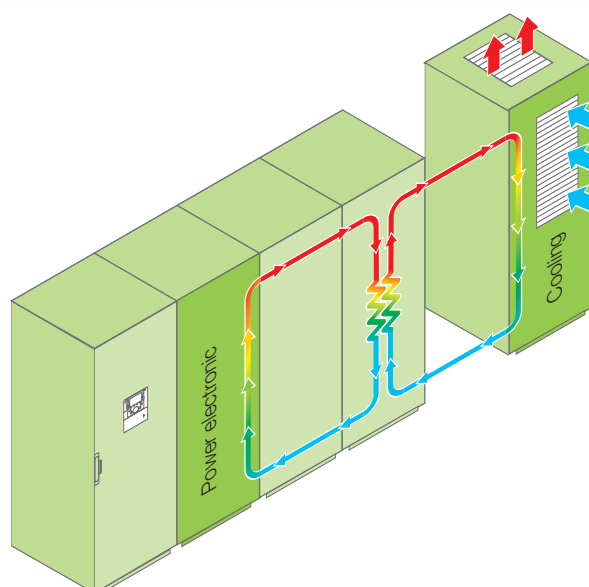
Configurable assembly

Separate enclosure for optional motor choke and ample space to connect the motor cables.

Solution 2:

External cooling

Significant cost reduction for air conditioning due to an external heat exchanger out of the electrical room.



Make your life easier with complete solutions

Schneider Electric, world leader in electrical distribution and control systems, presents a range of products, solutions and services for:

- Transforming and routing energy
- Automating machines and processes
- Safety solutions for machines and plants
- Controlling of drives, etc.

Ensure the reliability of your installation with a simple open architecture

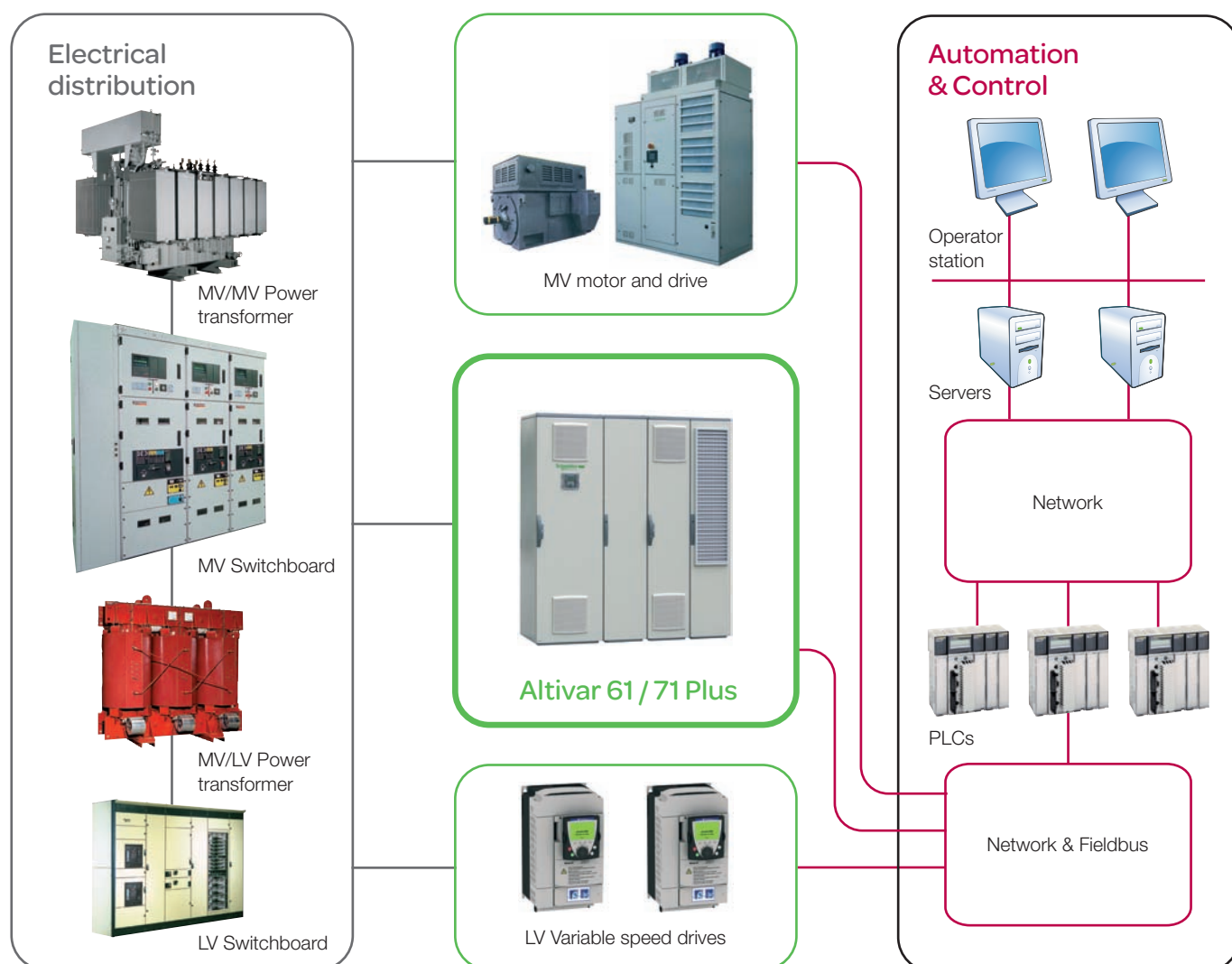
The Altivar 61/71 family offers an innovative control system with perfect torque control for start and operation, a programmable Controller Inside card, and on board safety function „Power Removal“.

The Altivar 61/71 Plus is open for nearly all field busses and control commands. Its architecture provides a safe and simple integration and a quick start-up of your drive.



The Altivar 61/71 Plus underlines Schneider Electric's expertise and know-how in the field of speed control.

Schneider Electric Global Solution



Setup and support as benefits of an international group

We apply our industrialisation capacity to Services, thus guaranteeing your success.

Schneider Electric's expertise

Service experts are on hand to help you:

- get maximum return from your investments
- optimise the value of your installations throughout their life cycle

A wide range of associated services

- **Audit and consultancy:**
 - line supply consultancy (compensation, filtering, harmonics, etc.)
 - shaft line study (torsional analysis, etc.)
 - energy efficiency, so as to determine the best drive solution
- **Bespoke project management**
- **Factory tests at maximum power**
- **Installation and startup with:**
 - assistance and troubleshooting
 - specific maintenance contract (possibly including remote access and reconditioning)
- **Customised training**
- **Speed and flexibility of service provision**



Innovative

Environmental friendliness due to exclusively use of ROHS conform components and 95% of recyclable materials.

Schneider Electric Industries S.A.S.

Head Office
35 rue Joseph Monier
92500 Rueil-Malmaison
FRANCE

www.schneider-electric.com

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 - Shutterstock