

Altivar 61

Variable-speed drive for industrial and municipal installations



The Altivar™ 61 variable-speed drive defines ease of use for centrifugal pump, fan, and normal duty industrial applications. It offers advanced features, functions, and user flexibility while its revolutionary design reduces installation cost and start-up time, and offers reliable operation, simple diagnostics, and energy efficiency.

The Altivar 61 variable-speed drive enables you to:

- > Lower energy costs by reducing motor speeds on centrifugal pump and fan applications.
- > Decrease installation costs by eliminating throttling valves or inlet guide vane typically used to control flow.
- > Manage real-time data by offering internal connection to major building networks.
- > Improve uptime with voltage sag ride-through, qualified by SEMI F47 standard.
- > Reduce life cycle costs of the installation by eliminating mechanical shock to belts and motor loads.
- > Improve indoor air quality and occupant comfort through accurate flow control.

Features and benefits

- > Reduce start-up time with macros for pump, fan, PID regulator, and network configuration.
- > Unique random switching frequency modulation provides enhanced occupant comfort by reducing audible motor noise.
- > Configurable automatic restart parameters and broken belt detection minimize downtime.
- > Robust motor starts with catch-on-the-fly by speed search, regardless of motor direction.
- > Suppress resonance in mechanical structures with selectable skip frequencies.
- > Configurable loss of follower and alarm management settings minimize downtime.
- > Bump-less transfer from local to automatic control reduces maintenance time.
- > Power removal safety input prevents unintended motor operation.

Applications

- > Fans for heating, cooling, ventilation, smoke extraction, induced draft, and cooling tower applications
- > Pumps for water booster stations, lift stations, influent, effluent, sludge, irrigation, and dewatering applications
- > Compressors, conveyors, extruders, mixers, positive displacement pumps, rotary blowers, and other normal duty applications requiring up to 110% or 120% overload and not running continuously below 5 hz

Make the most of your energySM

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Product range overview

The Altivar 61 variable-speed drive is available in all low voltage ranges. The basic Altivar 61 enclosure rating is IP20. In addition to the standard enclosed offer below, customized enclosed products and a variety of configurations are also available.

Voltage	Power Range	Standard Enclosure Offer
200 – 240 VAC	1 – 125 HP	Type 1: 1 – 125 HP Type 3R: 1 – 50 HP Type 12: 1 – 50 HP
400 – 480 VAC	1 – 2,000 HP	Type 1: 1 – 500 HP Type 3R: 1 – 100 HP Type 12: 1 – 2,000 HP
575 – 690 VAC	3 – 2,500 HP	Type 1: 3 – 450 HP Type 12: 1 – 2,500 HP

The Altivar 61 comes standard with:

- > LCD graphic keypad, eight lines of 24 characters
- > Integrated RJ45 port, modbus, or CAN network selectable
- > Removable control terminal block with the following I/O:
 - Six logic inputs
 - One power removal input
 - Two analog inputs
 - One analog output
 - Two relay outputs (1NO/NC, 1NO)

Product range options

The Altivar 61 variable-speed drive has a wide range of options available, allowing you flexibility to customize the product to your exact requirements.

Options include:

- > Remote keypad mounting
- > Bluetooth® interface module
- > 115 VAC I/O adapter
- > I/O extension cards
- > Network communication cards
- > Multi-pump application card
- > Integrated controller card for developing intelligent machine control
- > Flange mounting kits to mount heatsink outside an enclosure
- > Type 1 conduit kits



A long product life and reliability are assured by protective features at all levels, including advanced thermal protection, an integrated power removal safety function, drive protection, and environmental protection in accordance with the WEEE regulations and RoHS standards. The drive meets ABS, IEC, EN, CSA, and UL 508C standards. The power removal function has been certified by an independent body for e-stop requirements.

www.delivr.com/2ck79



Scan the code to download Altivar Plus handset.

www.delivr.com/2a8ac_nfc



Scan the code to download apps to help you select Altivar drives.

For more information, visit www.schneider-electric.com/us and enter key code **p701v**.

Enter key code

> OK



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