Altivar 71

Variable-speed drive for industrial and process machine installations



The Altivar™ 71 variable-speed drive is designed to excel in applications that demand high motor performance. The range offers a complete AC drive product family with advanced functionality that incorporates a simple user interface, common I/O options, and flexible communication options with leading motor performance in open loop or closed loop, over the widest horsepower range in the industry.

The Altivar™ 71 variable-speed drive enables you to:

> Reduce installation costs by matching drive HP to motor HP to obtain high motor performance without the need to oversize the drive.

> Manage data in real time by offering internal connection to all major networks.

> Easily configure, update, and check status via the large, customizable display and navigation wheel.

> Protect your drive, motor, connected equipment, and the environment.

Features and benefits

> Reduce start-up time with seven built-in macros for applications such as material handling, hoisting, master-slave control, and network configuration.

> Efficiently manage your installed base across a wide horsepower range with the common user interface, I/O, and network options.

> Improve machine performance and process throughput with dual microprocessors dedicated to motor and I/O control.

> Save panel space with side-by-side mounting and maximize product life with superior resistance to high temperatures.

> Easily integrate into your machines with flexible I/O and communication options.

> Prevent unintended motor operation with power removal input.

Applications requiring

> 150% overload for 60 seconds, or momentary loads of up to 220%, such as aggregate conveyance, package gapping, sorters, crushers, and cutting equipment

> High starting torque and maximum motor torque at low speeds such as hoisting, extruders, and metal forming machinery

> High dynamic speed response to changing loads such as palletizers, packaging, winding, mixing, and process machine applications

> Motor encoder feedback to ensure motor rotation as in some hoisting and positioning equipment

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Product range overview

The Altivar 71 variable-speed drive is available in all low voltage ranges. The basic Altivar 71 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	1/2 – 100 HP	Type 1: ½ – 100 HP Type 3R: 1 – 100 HP Type 12: 1 – 500 HP
400 – 480 VAC	1 – 1,800 HP	Type 1: 1 – 450 HP Type 3R: 1 – 500 HP Type 12: 1 – 1,800 HP
575 – 690 VAC	2 – 2,100 HP	Type 1: 2 – 350 HP Type 12: 2 – 2,100 HP

Product range options

The Altivar 71 variable-speed drive has a wide range of options allowing flexibility to customize the product to your exact requirements including:

> Remote keypad mounting

> Bluetooth® interface module

> 115 VAC I/O adapter

> I/O extension cards

> Encoder interface option cards

> Integrated controller card for developing intelligent machine control

> Flange mounting kits to mount heatsink outside an enclosure

> Type 1 conduit kits

The Altivar 71 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)

★ 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 handout.

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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Document Number 8800HO1302

October 2013

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