

Competitive. Robust. Compact.

Now, performance is combined with cost efficiency



Altivar 303

Variable speed drives for 3-phase asynchronous 400V motors.
Power range: 0.37 - 11 kW.

Your challenges drive our innovation

New variable speed drives for harsh environments

Particularly suitable for applications involving simple industrial machines, the Altivar™ 303 range of cost-effective variable speed drives integrates innovative technology that simplifies your installation. The design and choice of components are based on the Plug & Play principle and the open communication protocol ensures intuitive communication with all your applications.



Food processing



Pumps & fans



Material handling



Printing



Textile

Here are just 5 of the many ways that the Altivar 303 range can improve your business performance:

1 Robust design

The innovative air flow system and resistance to disturbed power supplies are designed to withstand even the harshest environments. All cards are coated as standard. The Altivar 303 range easily adapts to heavy loads and can work in temperatures up to 55°C without derating.

2 Save installation space

Depending on the environment, two compact design options are available: one with a base plate, the other with a heat sink. The small footprint of the drive makes installation easy even in small enclosures and the ability to mount the drives side by side saves even more space.

3 Intuitive communication

An open communication protocol ensures intuitive communication between all your applications. Use the remote keypad to easily send and receive programming files, locally or remotely.

4 Save time and cost

- Reduce commissioning time with the power off download function and user-friendly interface.
- Minimise installation time and cost thanks to the clear wiring diagram and integrated Modbus® communication.
- Save service costs thanks to the increased reliability and long life cycle of the Altivar 303 range which utilises rugged components that are designed to last for ten years, even in harsh environments.

5 Adapted to your application areas

Designed specifically to meet the challenges in food processing, pumps & fans, textile, printing, and material handling.

Altivar 303 selection guide

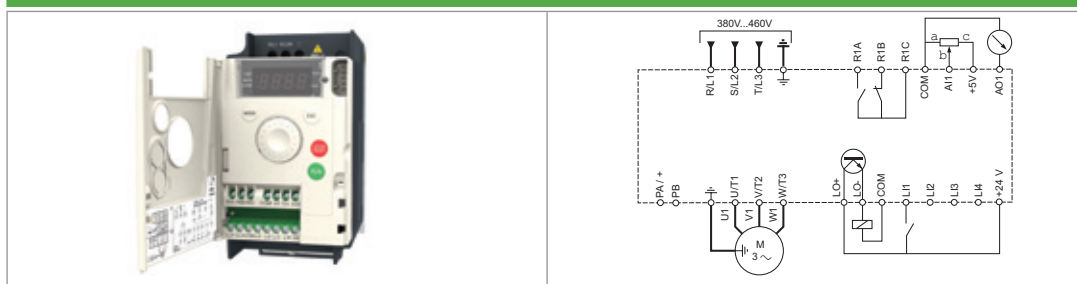
Specifications

Control method	Standard (voltage/frequency) Vector control Pump/fan (U ² /F quadratic ratio) Voltage/frequency ratio (2 points)
Speed range	1:20
Rated input voltage	380V -15% / 460V +10%
Rated input frequency	50-60Hz +/- 5%
Output voltage	3-phase maximum, equal to input voltage
Output frequency	0.5 to 400Hz
Over-current capacity	150% In for 60 secs.
Control inputs / outputs	1 AI _ 0-5/10V or 0-20mA 1 AO _ 0-10V or 0-20mA 4 LI, 1 LO 1 relay output with 2 changeovers
Acceleration/deceleration time	0.0 – 999.9 secs.
Switching frequency	Programmable from 2 to 12kHz
Protection	Phase short circuit, overload protection (I _{2t}) Mains under-voltage and over-voltage protection
Standard functions	Preset speeds and 2/3 wire control, DC injection braking
Degree of protection	IP41 on the top, IP20 for control and power terminal
Ambient temperature	55°C without derating
Operating position	Vertical


Selection chart

Part Number	Power kW	Output current (Amps) at 55°C	Dimensions (mm)		
			Width	Height	Depth
ATV303H037N4E	0.37	1.5	72	143	130
ATV303H075N4E	0.75	2.3	72	143	140
ATV303HU15N4E	1.5	4.1	105	143	151
ATV303HU22N4E	2.2	5.5			
ATV303HU30N4E	3	7.1	140	184	151
ATV303HU40N4E	4	9.5			
ATV303HU55N4E	5.5	12.6			
ATV303HU75N4E	7.5	17	150	232	171
ATV303HD11N4E	11	24			

Standard wiring diagram



Additional equipment

Quick configuration	Simple commissioning	Open communication protocol
		
Simple loader	Multi loader	Remote keypad
		
Modbus communication		

Make the most of your energySM

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