Technical Specifications

Power Supply

- 1 phase 220...240 VAC ±15 %
- 3 phase 220...240 VAC ±15 %
- 3 phase 380...480 VAC +10 % -15 %
- Input frequency 50/60 Hz

Overloads

- Starting torque 150 % for 60 s, 200 % for 3 s

Output Frequency

- 0.5...590 Hz
- Digital resolution 0.01 Hz

Inputs/Outputs

- Analogue Inputs 2: (0-5 V, 0-10 V, 0-20 mA)
- Analogue Output 1: (0-5 V, 0-10 V, 0-20 mA, 4-20 mA)
- Digital Inputs 6: Nominal 24 VDC
- Digital Output 1: Nominal 24 VDC
- Relay Output 1: Volt free contact, 5 A @230 VAC max.

Standards

AC10 IP66 meets the following standards when installed in accordance with the information provided in the relevant product manual

- CE marked to EN50178 (Safety, Low-Voltage Directive)
- CE marked to EN61800-3 (EMC Directive)

Operating Range

- Ambient operating temperature 0...50 °C
- Altitude 1000 m ASL
- Humidity 0...90 %, non-condensing, non-corrosive

Environment

- Conformally coated PCBs as standard achieving 3C3 environmental conformance
- Optional internal C3 EMC filter meets the requirements of EN61800-3 (industrial environment)

Switching Frequency

- Output switching frequencies 2...10 kHz, 4 kHz nominal

Ratings

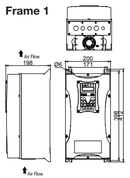
220 V Single Phase Input / 230 V Three phase Input		
Nominal Power [kW]	**Output Current [A]**	**Frame Size**
0.4	2.5	1
0.75	4.5	1
1.5	7	1
2.2	10	1

400 V Three phase Input		
Nominal Power [kW]	**Output Current [A]**	**Frame Size**
0.75	2	1
1.5	4	1
3	7	1
4	9	1
5.5	12	2
7.5	17	2
11	23	3
15	32	3

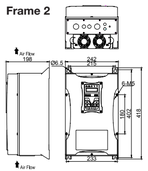
Dimensions [mm]

Frame	Height (H)	Width (W)	Depth (D)
1	412	200	198
2	418	242	198
3	471	242	228

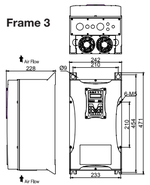
Frame 1



Frame 2



Frame 3



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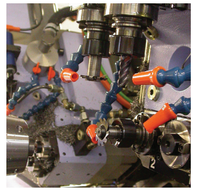
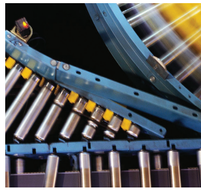


aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

AC10 Variable Speed Drive

For Simple, Reliable Motor Control in General Purpose Applications
0.4 - 15 kW IP66 Compact Drive



ENGINEERING YOUR SUCCESS.

AC10 Variable Speed Compact Drive

0.4 – 15 kW IP66

Overview

AC10 IP66 drive is a simple, reliable and economical solution to every-day motor control applications where protection against the ingress of dust and moisture is required. AC10 offers speed or torque control within the power range of 0.4 kW to 15 kW. Having features normally only associated with higher specification drives, including; IP66 protective enclosure, sensorless vector mode, output frequency up to 590 Hz and 3 phase 400 volt supplies in all 5 frame sizes, AC10 IP66 provides an optimised solution for OEM machine builders looking for a compact, cost-effective IP66 drive without compromising on performance.

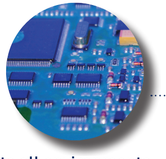
IP66 / NEMA 4x apply to IEC standard 60529-2004 and assess the capability of an enclosure to resist specific environental conditions. IP66 protection represents dust tight performance as well as the ability to withstand powerful water jets from all directions. Parker AC10 IP66 offers all the great benefits of the AC10 series drives but with added environmental protection.

Simplicity

AC10 IP66 is designed to reduce the time and effort required to install, setup and commission through its easy to use integrated keypad.
Minimal wiring requirements and two easily accessed terminal rails make AC10 IP66 fast and simple to install, having you up and running in no time at all.
Auto-tuning sensorless vector mode takes AC10 IP66 beyond simple V/Hz control allowing users requiring greater dynamic speed or torque control for their application to benefit from the drives enhanced 0.5 % speed and 5 % torque accuracy.

Reliability

Proven technology and manufacturing techniques ensure AC10 IP66 has been engineered and built to deliver consistently outstanding levels of performance day in, day out ensuring maximum uptime and productivity.
Thanks to its conformally coated PCBs, AC10 IP66 is able to withstand even the most arduous class 3C3 environment which many other drives in this class would struggle with, allowing you to operate AC10 IP66 with the utmost confidence in more applications.



Suited to all environments

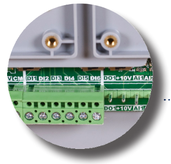
- Robust IP66 rated enclosure for environmental protection
- Optional Internal EMC filter allows use in C3 industrial environments
- Conformal coating provides protection in arduous class 3C3 environments
- 50 °C operating temperature

Extra power when it's needed

- 150 % overload for 60 seconds at 0.5 Hz to provide extra starting torque for shifting high inertia loads
- Output power can be uprated for operation in lower ambient temperatures

All at the touch of a button

- Standard ergonomic keypad providing full access to all drive functions
- Simple out of the box operation thanks to integrated macros and quick start guide



Flexible Connections

- Freely assignable digital inputs and outputs, and relay output to suit your application needs
- Internal dynamic brake switch as standard
- Connection to PLC or other Modbus RTU / RS485 network

High Speed Operation

- Up to 590 Hz output for high speed operations such as spindles, centrifuges, mixers etc.

Easy Connection Access

- Easy user access to connections with removable gland plate

Customisation Options

- User customisable option panel for:
  - -Isolators
  - -Switches
  - -Push buttons
  - -Indicators

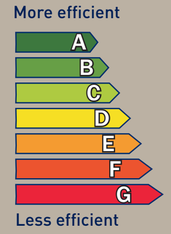
Energy savings made simple

For applications such as fan control, energy savings of up to 50% can be achieved by using the AC10 IP66 to match the motor speed to process requirements.

In addition to saving energy, power factor can be improved, system noise reduced, maintenance periods extended and overall service life increased.

AC10 IP66 can be integrated close to the motor, regardless of the environmental conditions, saving in cabling costs, space and energy as well as the cost of separate cabinets.

Dependent upon the application, payback time can be as little as a few months.

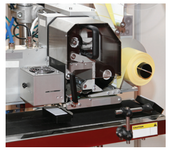


Applications

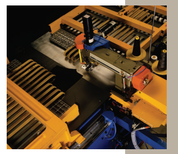
AC10 IP66 provides a no-fuss approach to general purpose industrial motor control applications across a wide range of industries. The IP66 enclosure enables use in both indoor and outdoor applications where environmental conditions may be a concern, such as wash-down areas in food and beverage facilities and use in waste plants or rooftop units.

Typical applications for AC10 include...

- Mixers
- Packaging Machines
- Textile Machines
- Conveyor
- Fans
- Spindles



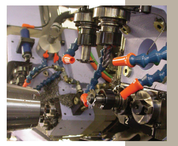
Packaging Machines



Textile Machines

Conveyors

Fans



Spindles

Mixers