

# Variable Speed Drive - AC10 Series

## Overview

### Description

The AC10 Compact Drive is a simple, reliable and economical solution to every-day motor control applications requiring speed or torque control within the power range of 0.2 kW to 180 kW for IP20 and 0.4 kW to 90 kW for IP66. Having compact dimensions and features normally only associated with higher specification drives, including sensorless vector mode for control of Permanent Magnet (PMAC) and AC induction motors, output frequency up to 590 Hz, 3 phase 400 V supplies in all 11 frame sizes and a full 150 % overload at 0.5 Hz for 1 minute, AC10 provides an optimised solution for OEM machine builders looking for a compact, cost-effective drive without compromising on performance.

All AC10 drives are now compatible with DSE-Lite: an easy-to-use software package designed to make commissioning and managing your variable speed drive application as simple as possible.

### Features

#### Simplicity

AC10 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 fast and simple to install, having you up and running in no time at all. Auto-tuning sensorless vector mode takes AC10 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 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 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 with the utmost confidence in more applications.



### Technical Characteristics IP20 - Overview

<b>Power Supply</b>	220 ... 240 VAC $\pm 15\%$ Single Phase 220 ... 240 VAC $\pm 15\%$ Three Phase 380 ... 480 VAC $+10\%$ $-15\%$ Three Phase
<b>Input Frequency</b>	50/60 Hz
<b>Power Range</b>	0.2...180 kW
<b>Operating Temperature</b>	-10...50 °C (derate above 40 °C)
<b>Analogue Inputs</b>	1x (0-10V), 1x (0-10V, 0-5V, 0-20mA, 4-20mA)
<b>Analogue Outputs</b>	1x (0-10 V), 1x (0-20 mA)
<b>Digital Inputs</b>	6x 24 VDC frames 1-5, 8x 24 VDC frames 6-11
<b>Digital Outputs</b>	1x 24 VDC frames 1-5 2x 24 VDC frames 6-11
<b>Relay Output</b>	1x 5 A @230 VAC



### Technical Characteristics IP66 - Overview

<b>Power Supply</b>	220 ... 240 VAC $\pm 15\%$ Single Phase 220 ... 240 VAC $\pm 15\%$ Three Phase 380 ... 480 VAC $+10\%$ $-15\%$ Three Phase
<b>Input Frequency</b>	50/60 Hz
<b>Power Range</b>	0.4...90 kW
<b>Operating Temperature</b>	-10...50 °C
<b>Analogue Inputs</b>	1x (0-10V), 1x (0-10V, 0-5V, 0-20mA, 4-20mA)
<b>Analogue Outputs</b>	1x (0-10 V, 0-20 mA)
<b>Digital Inputs</b>	6x 24 VDC
<b>Digital Outputs</b>	1x 24 VDC
<b>Relay Output</b>	1x 5 A @230 VAC