The 650 Series inverters provide basic speed control of standard three-phase AC motors from 0.3 to 10 HP (0.25 to 7.5 Kw). They are full of useful features including preprogrammed applications – all designed to simplify set-up, installation and operation.

The 650V Series inverters provide simple, no-fuss speed control of standard three-phase AC motors from 0.3 to 150 HP. Sensorless vector provides exceptional dynamic response.

- Pre-loaded macro applications
- Built-in EMC filters
- Extremely simple set-up and programming
- Removable keypad
- Extremely compact
- Motor thermistor input
- Output frequency 0-240Hz

Drive Performance
- Overload 150% for 30 seconds (heavy duty), 110% for 30 seconds (standard duty)
- IP20 rating
- Operation modes: V/F control with linear or quadratic law; sensorless vector control (650V)

Inputs/Outputs
- Analog Inputs: 2 (0-10V, 4-20mA)
- Analog Outputs: 1 (0-10V)
- Digital Inputs: 650: 3 configurable (24V) 650V: 5 configurable (24V)
- Relay Digital Outputs: 1
- Digital Inputs or Outputs: 650: 1 configurable (24V) 650V: 2 configurable (24V)
- Motor Thermistor Input: 1

Pre-loaded Applications
- Basic Speed Control
- Preset Speed
- Increase/Decrease
- PID Control
- Manual/Auto Control

The 690+ Series is a single range of AC drives designed to meet the requirements of all variable speed applications from simple single motor speed control through the most sophisticated integrated multi-drive systems.

The heart of the 690+ is a highly advanced 32-bit microprocessor-based motor control model which provides exceptional dynamic performance. Add a host of communications and control options to tailor the drives to meet your exact requirements.

- Function block programming
- Built-in EMC filters
- Torque at zero speed
- 1 to 1600 HP
- Output frequency 0–1000Hz
- IP20 rating (Sizes G/H/J IP00)

Inputs/Outputs
- Analog Inputs: 4 (0-10V, ±10V, 0-20mA, 4-20mA)
- Analog Outputs: 3 (0-10V, ±10V, 0-20mA, 4-20mA)
- Digital Inputs: 7 configurable (24V)
- Relay Digital Outputs: 3
- Motor Thermistor Input: 1