

# MOTOR

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## AC INDUCTION



### ▲ PRODUCT SPECIFICATIONS:

#### Electrical Features

Horsepower: From a few watts to a few kilowatts. 100 Watts to 420 Kilowatts (0.01 hp to 550 hp) for constant duty cycle as well as variable duty cycles.

Poles: 2, 4, 6, 8 poles are standard, higher pole counts are also available in addition to multispeed.

Speed: Up to 24,000 rpm with closed loop sensorless FOC options and higher speeds are also available for Volts/Hz open loop control.

Design Configuration: NEMA design A, B, C, D Squirrel cage induction.

Voltage: Up to 600 VAC with standard 220-380-480 VAC windings.

Frequency: Up to 1000 hertz for Volts/hz and up to 600 hertz with FOC drives.

Winding Insulation: Premium class H is standard, higher temperature insulation, varnish or ceramic based encapsulation also available.

#### Mechanical Features

Rotor Options: High pressure die-cast aluminum rotor with cooling fins and balancing lugs. Fabricated rotors with copper alloy bars and encapsulated end rings. Smooth balanced rotors for high speed applications.

Cooling: Mechanical cooling arrangements include TEAO, TEFC, water cooled, oil cooled, etc.

Stators: Hand wound triple coated magnet wire with high slot fill factor.

Feedback devices: Resolver or tachometer for closed loop vector control drives.

Protective devices: Winding temperature sensors such as RTD, Thermistor or thermocouple for temperature monitoring.

Bearing protection: Shaft grounding brushes to handle electrical discharge current.

### ▲ PRODUCT DESCRIPTION:

Electromech Technologies WELCO Induction Motors are tough and stand up to the most severe conditions. When applications call for the maximum power at the highest efficiency, resistance to harsh environmental conditions or extreme temperature resistance, WELCO Technologies Induction Motors are the best solution.

Electromech Technologies has thousands of custom designs and can produce a WELCO custom-engineered motor to your exact requirements. The Electromech Technologies advantage allows you to custom engineer a motor to your precise application requirements thus maximizing your system performance and total system investment.

### ▲ STANDARD CHARACTERISTICS:

Interchangeability with OEM equipment

Resistance to harsh environments

High reliability

Application matching performance