

Specifications:			
<ol> <li>Motor type: 4 pole, 3 phase, asynchronous, ventilated</li> <li>Base speed: 2970 RPM.</li> </ol>			
3. Maximum speed: 5000 RPM.			
4. Continuous stall torque: 107 Nm (947 lb-in) max at 155C winding temperature in a 40C			
5. Peak stall torque: 200 Nm (1770 lb-in) max.			
	2970 RPM 112.8 Amps 0 to peak max.(80 Amps.RMS)		
7. Operating voltage: 400 VAC RMS Ref. (Not for direct connection to AC line).			
8. Continuous stall current: 112.8 Amps 0 to peak max.(80 Amps.RMS)	Equivalent circuit parameters		
9. Magnetizing current: 39 Amps. RMS ref.			
10. Peak stall current: 217.7 Amps 0 to peak max.(154 Amps. RMS)	X1: .189 Ohms/phs Ref at 20C to 30C.		
11. Insulation class: 180 (H).	X1: .242 Ohms/phs Ref at 20C to 30C.		
12. Housing temperature: 125C max.	Xm: 4.82 Ohms/phs Ref at 20C to 30C		
13. Winding resistance: .046 Nom. Ohms, phase to phase at 20C to 30C.	R1: .0233 Ohms/phs Ref at 20C to 30C		
14. Winding inductance: 3.77 mH, phase to phase Ref.	R2: .0176 Ohms/phs Ref at 20C to 30C		
15. Dielectric rating of motor power connections (U,V,W), and thermostat connections			
(TS+, TS-) to ground: 2350 VAC RMS 50/60 Hz for 1 second.			
16. Rotor inertia: .098 kg-m2 Ref.			
17. Rotor balancing: Quality grade G-6.3.			
18. Product weight: 152 kg (335 lb) Ref.			
<ol><li>Operating ambient temperature: 0C to 40C (32F to 104F).</li></ol>			
<ol><li>Storage ambient temperature: -30C to 70C (-22F to 158F).</li></ol>			
21. Relative humidity: 5% to 95% non-condensing.			
<ol><li>Liquid / dust protection: IP54 with blower installed.</li></ol>			
23. Shock: 10 g peak max, 6 msec duration (18 occurances tested).			
24. Vibration: 2.5 g peak max, 30 to 2000 Hz.			
25. Shaft material: Steel, grade 1040/1045.			
26. Paint: Black. Shaft, key (if provided), flange mounting surface, and connectors are			
not painted.			
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Notes: "Ref" denotes untoleranced specifications, provided for reference only.	Rockwell DOCUMENT NUMBER		
Speed, torque and current specifications are for motor operation with	Automation 1000000106		
Allen Bradley drives.	A SIZE SHEET 2 OF 4		

## Feedback Specifications:

Electrical Hardware:

- 1. SIN, COS waveform output: 1024 sinusoids/rev.
- 2. SIN, COS waveform amplitude: 0.9 to 1.1 Volts peak to peak.
- 3. SIN -, COS voltage offset with respect to power input common: 2.2 to 2.8 VDC.
- 4. +5VDC voltage input: 4.5 to 12.0 VDC.
- 5. +5VDC current input: 125 mA DC max continuous, 1.0 A DC max inrush.
- 6. TS+, TS- thermostat operating voltage: 250 Volts max.
- 7. TS+, TS- thermostat operating current: 1.6/2.5 Amps max at 0.6/1.0 power factor.

Serial Communication:

- 1. DATA+, DATA- signal type, rate: RS 485, 9600 baud, asynchronous.
- 2. Communication hierarchy: Encoder is slave, communication is externally initiated.
- 3. Single turn absolute position value range: 0 to 32,767 steps (12 bit).
- 4. Absolute position data: Binary, value increases with CW shaft rotation viewing motor mounting face.
- 5. Data (byte) format: Start bit, 8 data bits, parity bit, stop bit.
- 6. Memory storage capacity: 128 bytes, EEPROM.
- 7. Encoder temperature data: Binary value of encoder temperature in degrees C.

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