

Specifications:			
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated			
2. Base speed: 1480 RPM.			
3. Maximum speed: 3000 RPM.			
 Continuous stall torque: 482 Nm (4266 lb-in) max at 155C winding temperature in a 40^o 	C		
5. Peak stall torque: 970 Nm (8585 lb-in) max.	6		
	n 1/80 PPM 196 / Amps 0 to p	eak may (130 3 Amps RMS)	
 Continuous output rating: 75 kW (hp) max at 1480 RPM. Continuous current @ 1480 RPM 196.4 Amps 0 to peak max.(139.3 Amps.RMS) Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line). 			
8. Continuous stall current: 196.4 Amps 0 to peak max.(139.3 Amps.RMS)		Equivalent circuit parameters	
9. Magnetizing current: 66.6 Amps. RMS ref.			
10. Peak stall current: 440 Amps 0 to peak max.(312 Amps. RMS)		X1: .113 Ohms/phs Ref at 20C to 30C.	
11. Insulation class: 180 (H).		X1: .152 Ohms/phs Ref at 20C to 30C.	
12. Housing temperature: 125C max.		Xm : 3.47 Ohms/phs Ref at 20C to 30C	
13. Winding resistance: .04 Nom. Ohms, phase to phase at 20C to 30C.		R1: .0198 Ohms/phs Ref at 20C to 30C	
14. Winding inductance: 2.3 mH, phase to phase Ref.		R2: .0151 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: .885 kg-m ² Ref.		BRAKE: 460VAC 48Nm max. holding torque	
17. Rotor balancing: Quality grade G-6.3.		BRAILE. 400 WIG 4014III Max. Holding torque	
18. Product weight: 565 kg (1246 lb) Ref.			
19. Operating ambient temperature: 0C to 40C (32F to 104F).			
20. Storage ambient temperature: -30C to 70C (-22F to 158F).			
21. Relative humidity: 5% to 95% non-condensing.			
22. Liquid / dust protection: IP54 with blower installed			
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), front mounting surface, and connectors are			
not painted.			
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Notes: "Ref" denotes untoleranced specifications, provided for reference only.		PART NO.	
Speed, torque and current specifications are for motor operation with	Allen-Bradley	L20M5214ESE	
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. Multi-turn absolute shaft revolution value range: 0 to 32,767 revolutions (12bit).
- 5. Absolute position data: Binary, value increases with CW shaft rotation viewing motor mounting face.
- 6. Data (byte) format: Start bit, 8 data bits, parity bit, stop bit.
- 7. Memory storage capacity: 128 bytes, EEPROM.
- 8. Encoder temperature data: Binary value of encoder temperature in degrees C.

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