

Specifications:					
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated					
2. Base speed: 1470 RPM.					
3. Maximum speed: 3000 RPM.					
4. Continuous stall torque: 155 Nm (1372 lb-in) max at 155C winding temperature in a 40C					
5. Peak stall torque: 325 Nm (2876 lb-in) max.					
	1470 RPM 64.9 Amps 0 to pe	ak max.(46 Amps.RMS)			
7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line).					
8. Continuous stall current: 64.9 Amps 0 to peak max.(46 Amps.RMS)		Equivalent circuit parameters			
9. Magnetizing current: 19.6 Amps. RMS ref.					
10. Peak stall current: 144 Amps 0 to peak max.( 102 Amps. RMS)		X1: .446 Ohms/phs Ref at 20C to 30C.			
11. Insulation class: 180 (H).		X1: .54 Ohms/phs Ref at 20C to 30C.			
12. Housing temperature: 125C max.		Xm : 11.8 Ohms/phs Ref at 20C to 30C			
13. Winding resistance: .232 Nom. Ohms, phase to phase at 20C to 30C.		R1: .116 Ohms/phs Ref at 200 to 300			
14. Winding inductance: 8.9 mH, phase to phase Ref.		R2: .0843 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: .111 kg-m <sup>2</sup> Ref.					
17. Rotor balancing: Quality grade G-6.3.					
18. Product weight: 166 kg (366 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), flange mounting surface, and connectors are					
not painted.					
not paintoa.					
		TITLE			
	01				
	ES, ELEC, HPK-B1310C-MA42AA				
	REV,	,			
Notes: "Ref" denotes untoleranced specifications, provided for reference only.		PART NO.			
	Allen-Bradley	L13M5171ESE			
Speed, torque and current specifications are for motor operation with	/ der bradley				
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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