

Specifications:				
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated				
2. Base speed: 2970 RPM.				
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3. Maximum speed: 5000 RPM.				
4. Continuous stall torque: 115 Nm (1018 lb-in) max at 155C winding temperature in a 40C				
5. Peak stall torque: 230 Nm (2035 lb-in) max.				
	2970 RPM 91.4 Amps 0 to pe	eak max.(64.8 Amps.RMS)		
7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line).				
8. Continuous stall current: 91.4 Amps 0 to peak max.(64.8 Amps.RMS)		Equivalent circuit parameters		
9. Magnetizing current: 28.8 Amps. RMS ref.				
10. Peak stall current: 190.3 Amps 0 to peak max.(135 Amps. RMS)		X1: .298 Ohms/phs Ref at 20C to 30C.		
11. Insulation class: 180 (H).		X1: .364 Ohms/phs Ref at 20C to 30C.		
12. Housing temperature: 125C max.	Xm: 7.71 Ohms/phs Ref at 20C to 30C			
13. Winding resistance: .074 Nom. Ohms, phase to phase at 20C to 30C.		R1: .037 Ohms/phs Ref at 20C to 30C		
14. Winding inductance: 5.9 mH, phase to phase Ref.		R2: .0275 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-m ² Ref.		BRAKE: 460VAC 20Nm max. holding torque		
17. Rotor balancing: Quality grade G-6.3.				
18. Product weight: 204 kg (450 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.				
		TITLE		
	01			
	LEC, HPK-B1308E-MC44AA			
	REV LO, L			
Notes: "Ref" denotes untoleranced specifications, provided for reference only.		PART NO.		
	Allen-Bradley	L13M5216ESE		
Speed, torque and current specifications are for motor operation with				
Allen Bradley drives.	1	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.

	01		TITLE		
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			A SIZE	SHEET	3 OF 4

