

Specifications:			
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated			
2. Base speed: 2970 RPM.			
3. Maximum speed: 5000 RPM.			
4. Continuous stall torque: 237 Nm (2097 lb-in) max at 155C winding temperature in a 40C			
5. Peak stall torque: 520 Nm (4062 lb-in) max.			
	2970 RPM 191 Amps 0 to pea	ak max (135.3 Amps RMS)	
7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line).		ak max.(100.07 mps. (mo)	
8. Continuous stall current: 191 Amps 0 to peak max.(135.3 Amps.RMS)		Equivalent circuit parameters	
9. Magnetizing current: 54.5 Amps. RMS ref.			
10. Peak stall current: 440 Amps 0 to peak max.(312 Amps. RMS)		X1: .136 Ohms/phs Ref at 20C to 30C.	
11. Insulation class: 180 (H).		X1: .179 Ohms/phs Ref at 200 to 300.	
12. Housing temperature: 125C max.		Xm : 4.21 Ohms/phs Ref at 200 to 30C	
13. Winding resistance: .033 Nom. Ohms, phase to phase at 20C to 30C.		R1: .0164 Ohms/phs Ref at 200 to 300	
14. Winding inductance: 2.7 mH, phase to phase Ref.		R2: .0127 Ohms/phs Ref at 200 to 300	
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: .206 kg-m ² Ref.			
17. Rotor balancing: Quality grade G-6.3.			
18. Product weight: 275 kg (606 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 paintoal			
	TITLE		
	01		
	ES, ELEC, HPK-B1613E-MA42AA		
	REV	-,	
Notes: "Ref" denotes untoleranced specifications, provided for reference only.		PART NO.	
Speed, torque and current specifications are for motor operation with	Allen-Bradley	L16M5179ESE	
Allen Bradley drives.		A SIZE SHEET 2 OF 4	
		A SIZE SHEET Z UF 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					
	-						
	REV	ES, ELEC, HPK-B1613E-MA42AA					
			PART NO.				
Note: "Ref" denotes untoleranced specifications, provided for reference only.	Al	len-Bradley	L16M5179ESE				
			A SIZE	SHEET	3	OF	4

