

Specifications:			
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated			
2. Base speed: 2965 RPM.			
3. Maximum speed: 5000 RPM.			
4. Continuous stall torque: 156 Nm (1381 lb-in) max at 155C winding temperature in a 400	2		
5. Peak stall torque: 270 Nm (2390 lb-in) max.	-		
	2970 RPM 124.4 Amps 0 to p	eak max (88.2 Amps RMS)	
7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line).			
8. Continuous stall current: 124.4 Amps 0 to peak max.(88.2 Amps.RMS)		Equivalent circuit parameters	
9. Magnetizing current: 31.4 Amps. RMS ref.		<u> </u>	
10. Peak stall current: 217 Amps 0 to peak max.(154 Amps. RMS)		X1: .288 Ohms/phs Ref at 20C to 30C.	
11. Insulation class: 180 (H).		X1: .319 Ohms/phs Ref at 20C to 30C.	
12. Housing temperature: 125C max.	Xm: 7.23 Ohms/phs Ref at 20C to 30C		
13. Winding resistance: .065 Nom. Ohms, phase to phase at 20C to 30C.		R1: .0326 Ohms/phs Ref at 20C to 30C	
14. Winding inductance: 5.8 mH, phase to phase Ref.	R2: .0227 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: .147 kg-m ² Ref.		BRAKE: 460VAC 20Nm max. holding torque	
18. Product weight: 240 kg (530 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.			
	01	TITLE	
	ES, ELEC, HPK-B1609E-SC44AA		
Notes: "Ref" denotes untoleranced specifications, provided for reference only.		PART NO.	
Speed, torque and current specifications are for motor operation with	Allen-Bradley	L16M5207ESE	
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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