

 Specifications: Motor type: 4 pole, 3 phase, asynchronous, ventilated Base speed: 2975 RPM. Maximum speed: 5000 RPM. Continuous stall torque: 183 Nm (1619 lb-in) max at 155C winding temperature in a 40C Peak stall torque: 400 Nm (3540 lb-in) max. Continuous output rating: 57 kW (hp) max at 2970 RPM. 				
 Base speed: 2975 RPM. Maximum speed: 5000 RPM. Continuous stall torque: 183 Nm (1619 lb-in) max at 155C winding temperature in a 40C Peak stall torque: 400 Nm (3540 lb-in) max. 				
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 Continuous stall torque: 183 Nm (1619 lb-in) max at 155C winding temperature in a 40C Peak stall torque: 400 Nm (3540 lb-in) max. 				
5. Peak stall torque: 400 Nm (3540 lb-in) max.				
ω computed solutions of the structure of the second state of th	70 RPM 149 Amps 0 to peak max.(105.7 Amps.RMS)			
7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line).				
8. Continuous stall current: 149 Amps 0 to peak max.(105.7 Amps.RMS)	Equivalent circuit parameters			
9. Magnetizing current: 47.6 Amps. RMS ref.				
10. Peak stall current: 338.4 Amps 0 to peak max.(240 Amps. RMS)	X1: .167 Ohms/phs Ref at 20C to 30C.			
11. Insulation class: 180 (H).	X1: .219 Ohms/phs Ref at 20C to 30C.			
12. Housing temperature: 125C max.	Xm : 4.82 Ohms/phs Ref at 20C to 30C			
13. Winding resistance: .041 Nom. Ohms, phase to phase at 20C to 30C.	R1: .0205 Ohms/phs Ref at 20C to 30C			
14. Winding inductance: 3.3 mH, phase to phase Ref.	R2: .0152 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: .177 kg-m ² Ref.				
17. Rotor balancing: Quality grade G-6.3.				
18. Product weight: 244 kg (538 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 painted.				
	01			
	ES, ELEC, HPK-B1611E-MA42AA			
Notes: "Ref" denotes untoleranced specifications, provided for reference only.	PART NO.			
Speed, torque and current specifications are for motor operation with	Allen-Bradley L16M5178ESE			
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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		ES EI	.EC, HPK-B1611E-N	144244				
	REV							
	Allen-Bradley		PART NO.					
ations, provided for reference only.			L16M5178ESE					
			A SIZE	SHEET	3	OF	4	

Note: "Ref" denotes untoleranced specifications, provided for reference only.

