

Specifications: 1. Motor type: 4 pole, 3 phase, asynchronous, ventilated 2. Base speed: 2975 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: 430 Nm (3805 lb-in) max. 6. Continuous stall torque: 237 NM (2097 lb-in) max at 2975 RPM. Continuous current @ 2975 RPM 242.5 Amps 0 to peak max.(172 Amps.RMS) 7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line). 8. Continuous stall current: 242.5 Amps 0 to peak max.(172 Amps.RMS) 9. Magnetizing current: 740 Amps RM ref. 0. Peak stall current: 440 Amps 0 to peak max.(312 Amps. RMS) 1. Insulation class: 180 (H). 2. Housing temperature: 125C max. 13. Winding resistance: .0019Nom. Ohms, phase to phase at 20C to 30C. 14. Winding inductance: 1.62 mH, phase to phase Ref. 15. Dielectric rating of motor power connections (U,VW), and thermostat connections (TS+, TS-) to ground: 2350 VAC RMS 50/60 Hz for 1 second. 16. Rotor inertia: .206 kg-m2 Ref. 17. Rotor balancing: Quality grade G-6.3. 18. Product weight: 275 kg (606 lb) Ref. 19. Operating 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
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24. Vibration: 2.5 g peak max, 30 to 2000 Hz.
26. Paint: Black. Shaft, key (if provided), flange mounting surface, and connectors are
not painted.
00 DESCRIPTION
VER HPK-E1613E-SA42AA,ESE
Notes: "Ref" denotes untoleranced specifications, provided for reference only. Rockwell DOCUMENT NUMBER
Speed, torque and current specifications are for motor operation with 1000000112
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.

	00		DESCRIPTION				
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	VER	HPK-E1613E-SA42AA,ESE					
	Rockwell Automation		DOCUMENT N	UMBER			
			1000000112				
			A SIZE	SHEET	3	OF	4

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