

	RADIAL	LOAD CAPA	CITY (Kgs) -	
NO AX	IAL LOAD - FO	OR L10 LIFE O	F 10,000 HOU	JRS
R	adial Load Ca	pacity at the E	End of the Sha	aft (Kgs)
	2500 RPM	1750 RPM	1150 RPM	850 RPM
	350	390	450	500
	AXIAL T	HRUST CAPA	CITY (Kas) -	
NO RA	DIAL LOAD -	FOR L10 LIFE	OF 10,000 H	OURS
			-	End of the Shaft (Kgs)
	2500 RPM	1750 RPM	1150 RPM	850 RPM
	250	290	330	360

Notes: Print or enlarge waveforms for improved clarity. For additional specifications see 10000000390

REFERENCES		DESCRIPTION			CAD DOCUMENT		
VERSION / CHANGE NUMBER		HPK-E1613C-MC44AA,ESE				CONFIDENTIAL AND PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIE	
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	Automation			ROCKWELL AUTOMATION MANUFACTURING STANDARDS			
		DR.	VS	DATE	9/20/2006	SHEET 1 OF 1	
						DOCUMENT NUMBER	
00	10000024					1000000370	

One differenties					
Specifications:					
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated					
2. Base speed: 1470 RPM.					
3. Maximum speed: 3000 RPM.					
4. Continuous stall torque: 271 Nm (2398 lb-in) max at 155C winding temperature in a 40	C				
5. Peak stall torque: 625 Nm (5531 lb-in) max.					
	@ 1470 RPM 133 Amps 0 to peak max.(94Amps.RMS)				
Operating voltage: 400 VAC RMS Ref. (Not for direct connection to AC line).					
8. Continuous stall current: 133 Amps 0 to peak max.(94 Amps.RMS)	Equivalent circuit parameters				
Magnetizing current: 36.6 Amps. RMS ref.					
10. Peak stall current: 310 Amps 0 to peak max.(220 Amps. RMS)	X1: .169 Ohms/phs Ref at 20C to 30C.				
11. Insulation class: 180 (H).	X2: .211 Ohms/phs Ref at 20C to 30C.				
12. Housing temperature: 125C max.	Xm: 5.15 Ohms/phs Ref at 20C to 30C				
13. Winding resistance:081 Nom. Ohms, phase to phase at 20C to 30C.	R1: .0407 Ohms/phs Ref at 20C to 30C				
14. Winding inductance: 3.37 mH, phase to phase Ref.	R2: .0315 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: .206 kg-m2 Ref.	BRAKE: 460VAC 20Nm max. holding torque				
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), front mounting surface, and connectors are					
not painted.					
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	VER HPK-E1613C-MC44AA,ESE				
Notes: "Ref" denotes untoleranced specifications, provided for reference only.	Rockwell PART NO.				
Speed, torque and current specifications are for motor operation with	Automation 1000000370				
Allen Bradley drives.	A SIZE SHEET 2 OF 4				
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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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