

[	REFERENCES VERSION / CHANGE NUMBER		HPK-E1310C-SB44AA,ESE				CAD DOCUMENT CONFIDENTIAL AND PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION IC. AND MAY NOT BE USED. COPIED		
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				Roci	AUTOMATION, INC.				
			Automation				PARTS MUST CONFORM TO APPLICABLI ROCKWELL AUTOMATION MANUFACTURING STANDARDS		
ľ			DR.	VS	DATE	9/20/2006	SHEET 1 OF 4		
Ī							DOCUMENT NUMBER		
							1000000327		

RADIAL LOAD CAPACITY (Kgs) -

Radial Load Capacity at the End of the Shaft (Kgs)

1150 RPM

290

Horizontal Mounting Load Capacity at the End of the Shaft (Kgs)

240

1750 RPM 1150 RPM

850 RPM

850 RPM

260

320

1750 RPM

AXIAL THRUST CAPACITY (Kgs) -

250

210

2500 RPM

220

2500 RPM

180

Charitications					
Specifications:					
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated					
2. Base speed: 1470 RPM.					
3. Maximum speed: 3000 RPM.					
4. Continuous stall torque: 155 Nm (1372 lb-in) max at 155C winding temperature in a 400					
5. Peak stall torque: 380 Nm (3363 lb-in) max.					
6. Continuous output rating: 23.8 kW (32.4hp) max at 1465 RPM. Continuous current @	1470 RPM 80 Amps 0 to peak max.(57.6 Amps.RMS)				
<ol><li>Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line).</li></ol>					
8. Continuous stall current: 80 Amps 0 to peak max.(57.6 Amps.RMS)	Equivalent circuit parameters				
<ol><li>Magnetizing current: 27.7 Amps. RMS ref.</li></ol>					
10. Peak stall current: 200 Amps 0 to peak max.(142 Amps. RMS)	X1: .274 Ohms/phs Ref at 20C to 30C.				
11. Insulation class: 180 (H).	X2: .341 Ohms/phs Ref at 20C to 30C.				
12. Housing temperature: 125C max.	Xm: 6.88 Ohms/phs Ref at 20C to 30C				
13. Winding resistance: .14 Nom. Ohms, phase to phase at 20C to 30C.	R1: .0702 Ohms/phs Ref at 20C to 30C				
14. Winding inductance: 5.46 mH, phase to phase Ref.	R2: .0523 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: .111 kg-m2 Ref.	BRAKE: 460VAC 20Nm max. holding torque				
17. Rotor balancing: Quality grade G-6.3.					
18. Product weight: 166 kg (366 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.					
	DESCRIPTION				
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Notes: "Ref" denotes untoleranced specifications, provided for reference only.	Rockwell DOCUMENT NUMBER				
Speed, torque and current specifications are for motor operation with	Automation 1000000327				
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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