

AXIAL LOAD	) - FOR L10 LIFE	E OF 10,000 H	OURS	
Radial Loa	d Capacity at th	e End of the S	Shaft (Kgs)	
2500 R	PM 1750 RP	M 1150 RPI	M 850 RPM	
580	660	660	660	
AXI	AL THRUST CA	PACITY (Kgs)	-	
RADIAL LOA	AD - FOR L10 LI	FE OF 10,000	HOURS	
Horizontal M	Nounting Load C	Capacity at the	e End of the Sl	naft (Kgs)
2500 RF	PM 1750 RPM	M 1150 RPN	1 850 RPM	
310	370	460	530	

REFERENCES		DESCRIPTION			CAD DOCUMENT		
VERSION / CHANGE NUMBER		HPK-E2010C-SB44BA,ESE			CONFIDENTIAL AND PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWEIL AUTOMATION, INC. AND MAY NOT BE USED, COPIE		
00	10000019					OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN PERMISSION OF ROCKWELL	
			Roci	AUTOMATION, INC.			
		Automation			PARTS MUST CONFORM TO APPLICABLE ROCKWELL AUTOMATION MANUFACTURING STANDARDS		
		DR.	VS	DATE	9/20/2006	SHEET 1 OF 4	
						DOCUMENT NUMBER	
				I		1000000333	

Specifications					
Specifications:					
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated					
2. Base speed: 1480 RPM.					
3. Maximum speed: 3000 RPM.					
4. Continuous stall torque: 482 Nm (4266 lb-in) max at 155C winding temperature in a 400					
5. Peak stall torque: 870 Nm (7700 lb-in) max.					
	2 1480 RPM 243 Amps 0 to peak max.(172.5 Amps.RMS)				
<ol><li>Operating voltage: 400 VAC RMS Ref. (Not for direct connection to AC line).</li></ol>					
8. Continuous stall current: 243 Amps 0 to peak max.(172.5 Amps.RMS)	Equivalent circuit parameters				
9. Magnetizing current: 82.5 Amps. RMS ref.					
10. Peak stall current: 440 Amps 0 to peak max.( 312 Amps. RMS)	X1: .0736 Ohms/phs Ref at 20C to 30C.				
11. Insulation class: 180 (H).	X2: .0995 Ohms/phs Ref at 20C to 30C.				
12. Housing temperature: 125C max.	Xm: 2.26 Ohms/phs Ref at 20C to 30C				
13. Winding resistance: .025 Nom. Ohms, phase to phase at 20C to 30C.	R1: .0124 Ohms/phs Ref at 20C to 30C				
14. Winding inductance: 1.46 mH, phase to phase Ref.	R2: .00984 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: .885 kg-m2 Ref.	BRAKE: 460VAC 48Nm max. holding torque				
17. Rotor balancing: Quality grade G-6.3.					
18. Product weight: 351 kg (1170 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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	00 DESCRIPTION				
	HPK-E2010C-SB44BA,ESE				
	VER TIP N°L2010C°SD44DA,L3L				
Notes: "Ref" denotes untoleranced specifications, provided for reference only.					
Speed, torque and current specifications are for motor operation with	Automation 1000000333				
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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