

REFERENCES		DESCRIPTION	CONFIDENTIAL AND PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL			
VERSION / CHANGE NUMBER		HP				
00	10000019		Rock	well		AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN PERMISSION OF ROCKWELL
		Au	PARTS MUST CONFORM TO APPLICABLE ROCKWELL AUTOMATION MANUFACTURING STANDARDS			
		DR.	VS	DATE	9/20/2006	SHEET 1 OF 4
						DOCUMENT NUMBER
						1000000334

1750 RPM 1150 RPM

660

1150 RPM

460

660

1750 RPM

370

850 RPM

850 RPM

530

660

Coordinations											
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	C										
5. Peak stall torque: 870 Nm (7700 lb-in) max.											
6. Continuous output rating: 75 kW (hp) max at 1480 RPM. Continuous current @ 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.											
	DESCRIPTION										
	00										
	HPK-E2010C-MB44BA,ESE										
	VER TIF R-L2010C-WID44DA,L3L										
Notes: "Ref" denotes untoleranced specifications, provided for reference only.											
Speed, torque and current specifications are for motor operation with	Automation 1000000334										
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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