

RADIA	L LOAD CAPA	CITY (Kas) -					
NO AXIAL LOAD - FO			URS				
Radial Load Ca	pacity at the I	End of the Sh	aft (Kgs)				
2500 RPM	1750 RPM	1150 RPM	850 RPM				
220	250	290	320				
AXIAL THRUST CAPACITY (Kgs) - NO RADIAL LOAD - FOR L10 LIFE OF 10,000 HOURS Horizontal Mounting Load Capacity at the End of the Shaft (Kgs)							
2500 RPM	1750 RPM	1150 RPM	850 RPM				
180	210	240	260				

Notes: Print or enlarge waveforms for improved clarity. For additional specifications see 10000000129.

REFERENCES		DESCRIPTION			CAD DOCUMENT			
	/ CHANGE //BER	HPK-E1308E-MA42AA,ESE				CONFIDENTIAL AND PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION. INC. AND MAY NOT BE USED, COPIED		
00	10000004	Rockwell				OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN PERMISSION OF ROCKWELL AUTOMATION, INC.		
		Automation			PARTS MUST CONFORM TO APPLICABLE ROCKWELL AUTOMATION MANUFACTURING STANDARDS			
		DR.	VS	DATE	6/15/2006	SHEET 1 OF 4		
						DOCUMENT NUMBER		
						1000000107		

Specifications:					
1. Motor type: 4 pole, 3 phase, asynchronous, ventilated					
2. Base speed: 2970 RPM.					
3. Maximum speed: 5000 RPM.					
4. Continuous stall torque: 107 Nm (947 lb-in) max at 155C winding temperature in a 400	<u>)</u>				
5. Peak stall torque: 200 Nm (1770 lb-in) max.					
	@ 2970 RPM 112.8 Amps 0 to peak max.(80 Amps.RMS)				
Operating voltage: 400 VAC RMS Ref. (Not for direct connection to AC line).					
8. Continuous stall current: 112.8 Amps 0 to peak max.(80 Amps.RMS)	Equivalent circuit parameters				
9. Magnetizing current: 39 Amps. RMS ref.					
10. Peak stall current: 217.7 Amps 0 to peak max.(154 Amps. RMS)	X1: .189 Ohms/phs Ref at 20C to 30C.				
11. Insulation class: 180 (H).	X1: .242 Ohms/phs Ref at 20C to 30C.				
12. Housing temperature: 125C max.	Xm: 4.82 Ohms/phs Ref at 20C to 30C				
13. Winding resistance: .046 Nom. Ohms, phase to phase at 20C to 30C.	R1: .0233 Ohms/phs Ref at 20C to 30C				
14. Winding inductance: 3.77 mH, phase to phase Ref.	R2: .0176 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: .098 kg-m2 Ref.					
17. Rotor balancing: Quality grade G-6.3.					
18. Product weight: 152 kg (335 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.					
	00 DOCUMENT NUMBER				
	VER HPK-E1308E-MA42AA,ESE				
Notes: "Ref" denotes untoleranced specifications, provided for reference only.					
Speed, torque and current specifications are for motor operation with					
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.

ĺ	00	DOCUMENT NUMBER					
	00						
	VER	HPK-E1308E-MA42AA,ESE					
		Rockwell	DOCUMENT N	UMBER			
	Automation		1000000107				
			A SIZE	SHEET	3	OF	4

Note: "Ref" denotes untoleranced specifications, provided for reference only.

