

RADIA	L LOAD CAPA	CITY (Kgs) -				
NO AXIAL LOAD - FO	OR L10 LIFE C	OF 10,000 HO	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 10000000358.

Γ	REFERENCES		DESCRIPTION			CAD DOCUMENT		
		/ CHANGE IBER	HPK-E1308E-MB44AA,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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F			Rockwell Automation			PARTS MUST CONFORM TO APPLICABLE ROCKWELL AUTOMATION MANUFACTURING STANDARDS		
			DR.	VS	DATE	9/22/2006	SHEET 1 OF 4	
							DOCUMENT NUMBER	
							1000000338	

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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 40C					
5. Peak stall torque: 200 Nm (1770 lb-in) max.					
	2970 RPM 112.8 Amps 0 to peak max.(80 Amps.RMS)				
7. 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				
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.	BRAKE: 460VAC 20Nm max. holding torque				
17. Rotor balancing: Quality grade G-6.3.	, i i i i i i i i i i i i i i i i i i i				
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.					
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Notes: "Ref" denotes untoleranced specifications, provided for reference only.					
Speed, torque and current specifications are for motor operation with	Automation 1000000338				
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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