

	REFEF	RENCES	HPK-E1815C-SA42BA,ESE				CAD DOCUMENT		
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			Rockwell Automation				AUTOMATION, INC. PARTS MUST CONFORM TO APPLICABLE ROCKWELL AUTOMATION MANUFACTURING STANDARDS		
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RADIAL LOAD CAPACITY (Kgs) -

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

530

310

AXIAL THRUST CAPACITY (Kgs) -

1750 RPM 1150 RPM

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

380

1750 RPM 1150 RPM

530

850 RPM

850 RPM

440

530

2500 RPM

450

2500 RPM

260

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: 360 Nm (3186 lb-in) max at 155C winding temperature in a 400						
5. Peak stall torque: 840 Nm (7434 lb-in) max.						
	1480 RPM 187 Amps 0 to peak max.(132.5 Amps.RMS)					
7. Operating voltage: 400 VAC RMS Ref. (Not for direct connection to AC line).						
8. Continuous stall current: 187 Amps 0 to peak max.(132 Amps.RMS)	Equivalent circuit parameters					
9. Magnetizing current: 64.3 Amps. RMS ref.						
10. Peak stall current: 440 Amps 0 to peak max.(312 Amps. RMS)	X1: .108 Ohms/phs Ref at 20C to 30C.					
11. Insulation class: 180 (H).	X2: .153 Ohms/phs Ref at 20C to 30C.					
12. Housing temperature: 125C max.	Xm: 2.89 Ohms/phs Ref at 20C to 30C					
13. Winding resistance: .036 Nom. Ohms, phase to phase at 20C to 30C.	R1: .0179 Ohms/phs Ref at 20C to 30C					
14. Winding inductance: 2.15 mH, phase to phase Ref.	R2: .0134 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: .468 kg-m2 Ref.						
17. Rotor balancing: Quality grade G-6.3.						
18. Product weight: 474 kg (1045lb) Ref.						
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						
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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 100000100					
Allen Bradley drives.	A SIZE SHEET 2 OF 4					
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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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