

	REFERENCES VERSION / CHANGE NUMBER		DESCRIPTION	1	CAD DOCUMENT CONFIDENTIAL AND PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION. IC. AND MAY NOT BE USED, COPIED				
			н	PK-E1815					
	00	10000019		OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN PERMISSION OF ROCKWELL AUTOMATION, INC.					
			Rockwell Automation				PARTS MUST CONFORM TO APPLICABLE ROCKWELL AUTOMATION MANUFACTURING STANDARDS		
ľ			DR.	VS	DATE	9/20/2006	SHEET 1 OF 4		
							DOCUMENT NUMBER		
							1000000332		

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:											
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 40C											
5. Peak stall torque: 840 Nm (7434 lb-in) max.											
6. Continuous output rating: 55.9 kW (hp) max at 1480 RPM. Continuous current @ 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.	BRAKE: 460VAC 48Nm max. holding torque										
17. Rotor balancing: Quality grade G-6.3.	Ŭ I										
18. Product weight: 474 kg (1045lb) 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											
	00 DESCRIPTION										
	VER HPK-E1815C-MB44BA,ESE										
Notes: "Ref" denotes untoleranced specifications, provided for reference only.											
Speed, torque and current specifications are for motor operation with	Automation 1000000332										
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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