

RADIAL LOAD CAPACITY (Kgs) -													
O AXIAL LOAD - FOR L10 LIFE OF 10,000 HOURS													
Radial Load Capacity at the End of the Shaft (Kgs)													
	2500 RPM	1750 RPM	1150 RPM	850 RPM									
	350	390	450	500									
AXIAL THRUST CAPACITY (Kgs) -													
O 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									
	250	290	330	360									

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PARTS MUST CONFORM TO APPLICABLE ROCKWELL AUTOMATION MANUFACTURING STANDARDS

SHEET 1 OF 4

1000000380

DOCUMENT NUMBER

9/22/2006

Specifications:										
 Motor type: 4 pole, 3 phase, asynchronous, ventilated Base speed: 2970 RPM. 										
3. Maximum speed: 5000 RPM.										
4. Continuous stall torque: 156 Nm (1381 lb-in) max at 155C winding temperature in a 40	DC.									
5. Peak stall torque: 359 Nm (3176 lb-in) max.										
6. Continuous output rating: 48.4 kW (hp) max at 2970 RPM. Continuous current @ 2970 RPM 153.7 Amps 0 to peak max.(109 Amps.RMS)										
7. Operating voltage: 400 VAC RMS Ref. (Not for direct connection to AC line).										
8. Continuous stall current: 153.7 Amps 0 to peak max.(109 Amps.RMS)	Equivalent circuit parameters									
9. Magnetizing current: 41 Amps. RMS ref.										
10. Peak stall current: 356.7 Amps 0 to peak max.(253 Amps. RMS)	X1: .184 Ohms/phs Ref at 20C to 30C.									
11. Insulation class: 180 (H).	X2: .206 Ohms/phs Ref at 20C to 30C.									
12. Housing temperature: 125C max.	Xm: 4.58 Ohms/phs Ref at 20C to 30C									
13. Winding resistance: .041 Nom. Ohms, phase to phase at 20C to 30C.	R1: .0207 Ohms/phs Ref at 20C to 30C									
14. Winding inductance: 3.7 mH, phase to phase Ref.	R2: .0148 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: .147 kg-m ² Ref.	BRAKE: 460VAC 20Nm max. holding torque									
18. Product weight: 213 kg (469 lb) Ref.										
19. Operating ambient temperature: 0C to 40C (32F to 104F).										
20. Storage ambient temperature: -30C to 70C (-22F to 158F).										
 Relative humidity: 5% to 95% non-condensing. 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.										
not painted.										
	00 DESCRIPTION									
	VER HPK-E1609E-MC44AA,ESE									
Notes: "Ref" denotes untoleranced specifications, provided for reference only.										
Speed, torque and current specifications are for motor operation with	Automation 1000000380									
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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	VER	HPK-E1609E-MC44AA,ESE					
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