

General Specifications:							
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.							
2. Motor poles:	8						
3. Operating Speed, max	5000 RPM						
 Base speed (max speed at peak torque), Ref: Operating voltage at base speed: 	4500 RPM						
J. Operaling vollage al base speed.							
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	10.7 Nm (95 lb-in)						
7. Winding temperature, max, in a 40C ambient:	140 degrees C						
8. Continuous stall current, max:	22.46 Amps 0 to peak						
 8. Continuous stall current, max: 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications: 	305 x 305 x 12.7mm (12 x 12 x 0.5 inch)						
10. Peak stall torque, max:	23.2 Nm (205 lb-in)						
11. Peak stall current, max:	56.89 Amps 0 to peak						
12. Rated Speed (Speed at max continous power)	3000						
13. Continuous output rating, max at rated speed:	2.50 kW (3.35 hp)						
14. Continuous torque, max, at rated speed:							
15. Continuous current, Ref, at rated speed:	15.4 Amps 0 to peak						
 15. Continuous current, Ref, at rated speed: 16. Operating voltage, Ref (Not for direct connection to AC line): 	480 VAC RMS						
17. Insulation class:							
18. Housing temperature, max:	125C (257F)						
 Housing temperature, max: Ke, +/-10%, phase to phase at 25C +/- 5C: Kt (aiaa) Pot at 25C +/ 5C: 	69 V/kRPM 0 to peak						
20. Kt (sine), Ref, at 25C +/- 5C:	0.57 Nm/Amp (5.05 lb-in/Amp) 0 to peak						
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	0.599 011115						
22. Winding inductance, Ref, phase to phase:	6.59 mH						
23. Dielectric rating of motor power connections (U, V, VV), to ground for 1 second:	1800 VAC RMS 50/60 Hz						
24. Audible noise, Ref, at 1 meter distance:	XX dBA						
25. Rotor inertia, +/- 10%:	0.006745 kg-m² (0.05969 lb-in-sec²)						
26. Rotor balancing quality grade:	G-6.3						
27. Friction torque, Ref:	0.44 N (4.07) H (a)						
28. Friction torque, Ref, with shaft seal option installed:							
29. Cogging torque, Ref:	0.11 Nm (1.0 lb-in) peak to peak						
30. Thermal resistance, Ref, winding to ambient:	0.45 degrees C/watt						
31. Thermal time constant, Ref, winding to ambient:	33.5 minutes						
32. Product weight, Ref:	17.9 Kg (39.5 lb)						
33. Shipping weight, Kei.	20.95 kg (40.1 lb)						
34. Operating ambient temperature:	0C to 40C (32F to 104F)						
NOLES.							
1. "Ref" denotes untoleranced specifications, provided for reference only.							
2. Speed, torque and current specifications are for operation with Allen Bradley drives.							
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Dr. Scott Johnson Date 08-26-							

General Specifications, continued:	
35. Storage ambient temperature:	-30C to 70C (-22F to 158F)
36. Relative humidity, non-condensing:	5% to 95%
37. Liquid / dust protection:	IP66
38. Shock, max, 6 msec duration:	20 g peak
39. Vibration, max, 30 to 2000 Hz:	2.5 g peak
40. Shaft material:	Steel, 1144
41. Paint, color:	Black
42. Shaft, key (if provided), front mounting surface, and connector mating surfaces are not p	painted.

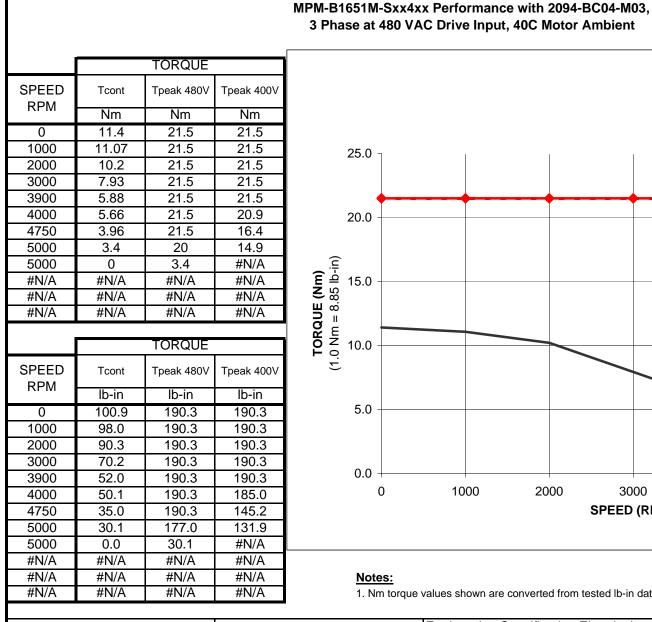
Feedback Specifications:

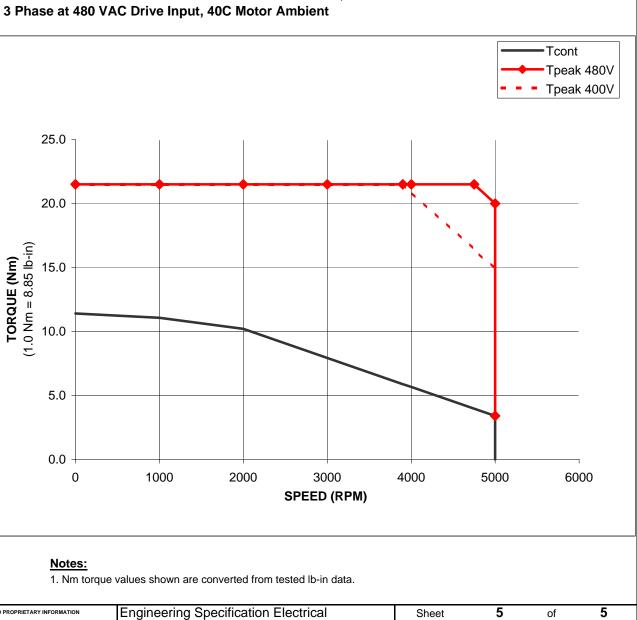
 2. SIN, COS waveform amplitude, ± 10%: 3. SIN -, COS - voltage offset with respect to ECOM ±0.3 VDC: 4. EPWR 5V (encoder power) input voltage: 5. EPWR 5V continuous input current.max, at 5.0 VDC: 	024 sinusoids/rev .0 VAC peak to peak 2.2 to 2.8 VDC V/A				
 3. SIN -, COS - voltage offset with respect to ECOM ±0.3 VDC: 4. EPWR 5V (encoder power) input voltage: 5. EPWR 5V continuous input current.max. at 5.0 VDC: 	2.2 to 2.8 VDC				
 EPWR 5V (encoder power) input voltage: EPWR 5V continuous input current.max. at 5.0 VDC: 					
5. EPWR 5V continuous input current.max. at 5.0 VDC:					
	J/A				
6. EPWR 5V inrush input current, max, when connected to Kinetix6000 drive:	J/A				
7. EPWR 9V (encoder power) input voltage:	7.0 to 12.0 VDC				
8. EPWR 9V continuous input current.max. at 9.0 VDC:	30 mADC				
	3.9 ADC				
10. TS+, TS- thermostat operating voltage, max:	250 Volts				
	1.6 Amps				
12. TS+, TS- thermostat continuous current, max, at 1.0 power factor:	2.5 Amps				
13. DATA+, DATA- signal type, rate, asynchronous:	RS 485, 9600 baud				
14. Communication hierarchy: Encoder is slave, communication is externally initiated.					
15. Single turn absolute position value range:) to 32,767 (15 bit)				
16. Absolute position data: Binary, value increases with CW shaft rotation viewing motor mounting face.					
17. Data (byte) format: Start bit, 8 data bits, parity bit, stop bit.					
18. Memory storage capacity, EEPROM:	28 bytes				
19. Encoder temperature data: Binary value of encoder temperature in degrees C.					
<u>Notes:</u> 1. "Ref" denotes untoleranced specifications, provided for reference only.					
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 Type: Spring-set holding brake, releases when voltage applied. 	
2. Holding torque, max:	28.3 Nm (250 lb-in)
 Voltage input, +15/-10%, may be applied either polarity: 	24 VDC
 Current input, +/- 10%, at 24 VDC, at 25C +/- 5C: 	1.17 ADC
5. Coil resistance, +/-10%, at 25C +/- 5C:	20.5 Ohms
5. Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:	26.7 Ohms
7. Release time delay (when voltage applied), Ref:	70 msec
3. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	
in external control circuit:	250 msec
9. Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device	
in external control circuit:	50 msec
0. Rotational backlash, Ref, with brake engaged:	25 arc minutes
1. Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:	1200 VAC RMS 50/60 H

Notes:

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