

General Specifications:						
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.						
2. Motor poles:	8					
3. Operating Speed, max						
 4. Base speed (max speed at peak torque), Ref: 5. Operating voltage at base speed: 						
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	5.99 Nm (53 lb-in)					
7. Winding temperature, max, in a 40C ambient:	140 degrees C					
8. Continuous stall current, max:	12.57 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:	13.5 Nm (119 lb-in)					
11. Peak stall current, max:						
12. Rated Speed (Speed at max continous power)						
13. Continuous output rating, max at rated speed:	1.65 kW (2.21 hp)					
14. Continuous torque, max, at rated speed:	3.9 Nm (35 lb-in)					
15. Continuous current, Ref, at rated speed:	7.0 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:	155C (Class F)					
18. Housing temperature, max:	125C (257F)					
 18. Housing temperature, max: 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 20. Kt (size) . Bet at 25C +/- 5C: 	75 V/kRPM 0 to peak					
20. Kt (Sine), Ref. at 250 +/- 50.	0.02 Nm/Amp (5.49 ib-in/Amp) 0 to peak					
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	1.24 ohms					
22. Winding inductance, Ref, phase to phase:	10.91 mH					
23. Dielectric rating of motor power connections (U,V,W), 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%:	0.000983 kg-m ² (0.00870 lb-in-sec ²)					
26. Rotor balancing quality grade:	G-6.3					
27. Friction torque, Ref:						
28. Friction torque, Ref, with shaft seal option installed:						
29. Cogging torque, Ref:	0.037 Nm (0.33 lb-in) peak to peak					
30. Thermal resistance, Ref, winding to ambient:	0.57 degrees C/watt					
31. Thermal time constant, Ref, winding to ambient:	26.5 minutes					
32. Product weight, Ref:	8.6 Kg (19 lb)					
33. Shipping weight, Ref.	9.94 Kg (21.9 lb)					
34. Operating ambient temperature:	0C to 40C (32F to 104F)					
Notes.						
1. "Ref" denotes untoleranced specifications, provided for reference only.						
2. Speed, torque and current specifications are for operation with Allen Bradley drives.						
CONFIDENTIAL AND PROPRIETARY INFORMATION Engineering Specification Electrical	Sheet 2 of 5					
Rockwell This document contains confidential and proprietary information of Rockwell automation, Inc. and May not be used, copied or MPM-B1302M-MJ74AA	Size Ver					
	A 10000073869 01					
Dr. Scott Johnson Date 08-26-0						

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
40. Objects loss (if a new ideal) from the constinue configuration of the construction	

42. Shaft, key (if provided), front mounting surface, and connector mating surfaces are not painted.

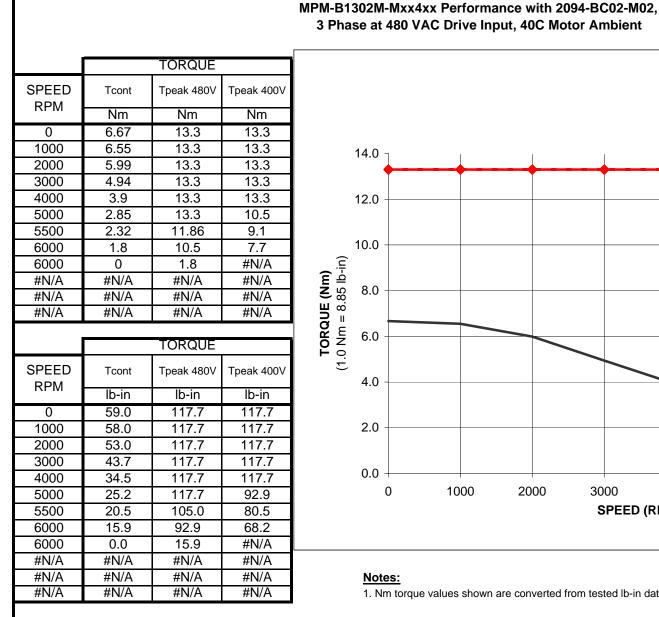
Feedback Specifications:

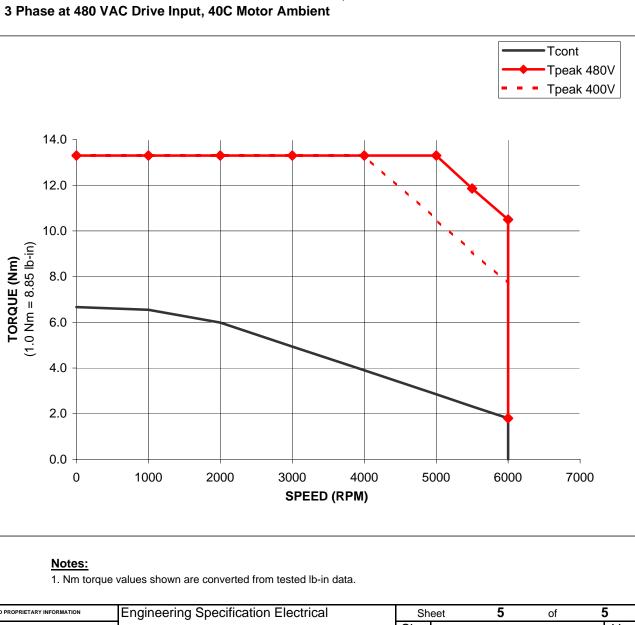
Automation	THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN PERMISSION OF ROCKWELL AUTOMATION, INC.	MPM-B130 Dr. Scott Johnson	2M-MJ74AA Date 08-26-09	Size	1000007	73869	Ver 01
Rockwell	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specificat	on Electrical	She	eet 3	of	5
<u>Notes:</u> 1. "Ref" denotes untoleranced s	specifications, provided for reference only	у.					
 Data (byte) format: Start bi Memory storage capacity, E 	· · · · ·		10	8 bytes			
15. Single turn absolute positio		•		o 32,767 (⁻	15 bit)		
13. DATA+, DATA- signal type,	, rate, asynchronous:			485, 9600	0 baud		
12. TS+, TS- thermostat contin	uous current, max, at 1.0 power factor:		2.5	Amps			
11. TS+, TS- thermostat contin	uous current, max, at 0.6 power factor:		1.6	Amps			
TS+, TS- thermostat operat	ting voltage, max:		250	0 Volts			
9. EPWR 9V inrush input curre	nt, max, when connected to Kinetix6000	drive:	3.9	ADC			
8. EPWR 9V (encoder power) 1	nput voltage:		0.7 80	mADC			
6. EPWR 5V Inrush Input curre				-∖) to 12.0 V			
5. EPWR 5V continuous input o	current,max, at 5.0 VDC:	drive:	N/A	A ^			
4. EPWR 5V (encoder power) I	nput voltage:		IN/ <i>F</i>	-			
3. SIN -, COS - voltage offset w	de, ± 10%: vith respect to ECOM ±0.3 VDC:		2.5	VDC			
2. SIN, COS waveform amplitu	de, ± 10%:		1.0	VAC peal	k to peak		
1. SIN, COS waveform output:			-	24 sinusoio			

. Type: Spring-set holding brake, releases when voltage applied.	
2. Holding torque, max:	10.2 Nm (90 lb-in)
 Voltage input, +15/-10%, may be applied either polarity: 	24 VDC
4. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	0.64 ADC
5. Coil resistance, +/-10%, at 25C +/- 5C:	38 Ohms
5. Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:	42 Ohms
7. Release time delay (when voltage applied), Ref:	110 msec
3. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	
in external control circuit:	160 msec
9. Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device	
in external control circuit:	25 msec
0. Rotational backlash, Ref, with brake engaged:	48 arc minutes
1. Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:	1200 VAC RMS 50/60 Hz

Notes:

1. "Ref" denotes untoleranced specifications, provided for reference only. Engineering Specification Electrical CONFIDENTIAL AND PROPRIETARY INFORMATION 4 5 Sheet of **Rockwell** Automation Size Ver THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATIC OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN PERMISSION OF ROCKWELL AUTOMATION, INC. MPM-B1302M-MJ74AA 10000073869 Α 01 Dr. Scott Johnson Date 08-26-09





	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specification Electrical				Shee	t t	5	of	5
Rockwell Automation	THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN	MPM-B1302M-MJ74AA			Size	1000	10000073869	869	Ver 01	
	PERMISSION OF ROCKWELL AUTOMATION, INC.	Dr.	Scott Johnson	Date	08-26-09	A				UI