

General Specifications:								
1. Motor type: 3 phase, we winding, permanent magnet rotor, totally enclosed, non-ventilated.								
2. Motor poles:	8							
3. Operating Speed, max	4000 F	RPM						
<ol> <li>Base speed (max speed at peak torque), Ref:</li> <li>Operating voltage at base speed:</li> </ol>	2400 F	RPM						
J. Operaling vollage al base speed.	110 17	AC RMS						
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	10.2 N	10.2 Nm (90 lb-in)						
7. Winding temperature, max, in a 40C ambient:	140 de	grees C						
8. Continuous stall current, max:	10.75	10.75 Amps 0 to peak						
<ol> <li>8. Continuous stall current, max:</li> <li>9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications:</li> </ol>	305 x 3	305 x 12.	7mm (12 x 1	I2 x 0.5 inch)				
10. Peak stall torque, max:	27.1 N	m (240 ll	o-in)					
11. Peak stall current, max:	34.25	Amps 0 t	o peak					
12. Rated Speed (Speed at max continous power)	3500							
13. Continuous output rating, max at rated speed:	2.20 k	W (2.95 ł	np)					
14. Continuous torque, max, at rateu speeu.	0.0 11	n (53 lb-ii	ר)					
<ul> <li>15. Continuous current, Ref, at rated speed:</li> <li>16. Operating voltage, Ref (Not for direct connection to AC line):</li> </ul>	5.8 An	nps 0 to p	beak					
16. Operating voltage, Ref (Not for direct connection to AC line):	480 V/	AC RMS						
17. Insulation class:		Class F)						
18. Housing temperature, max:	125C (	(257F)						
<ul> <li>18. Housing temperature, max:</li> <li>19. Ke, +/-10%, phase to phase at 25C +/- 5C:</li> <li>20. Kt (circl) Bet at 25C +/- 5C:</li> </ul>	138 V/	kRPM 0	to peak					
20. Kt (sine), Kei, at 250 +/- 50.	1.14 IN	m/Amp (	10.10 lb-in/A	mp) 0 to peak				
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	1.957	ohms						
22. Winding inductance, Ref, phase to phase:	18.64	mΗ						
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:	1800 \	AC RMS	6 50/60 Hz					
24. Audible noise, Ref, at 1 meter distance:	XX dB	A						
25. Rotor inertia, +/- 10%:	0.0012	23 kg-m	² (0.01082 lb	o-in-sec²)				
26. Rotor balancing quality grade:	G-6.3							
27. Friction torque, Ref:	0 4 E N	m (1.35 l	b-in)					
28. Friction torque, Ref, with shaft seal option installed:	0 ( E N	m (1.3 lb	-in)					
29. Cogging torque, Ref:	0.060	Nm (0.53	lb-in) peak	to peak				
30. Thermal resistance, Ref, winding to ambient:	0.49 d	0.49 degrees C/watt						
31. Thermal time constant, Ref, winding to ambient:	30.5 m	ninutes						
32. Product weight, Ref:	11.7 k	g (25.7 lb	)					
33. Shipping weight, Rei.	12.94	kg (28.5	lb)					
34. Operating ambient temperature:	0C to 4	40C (32F	to 104F)					
Notes:								
1. "Ref" denotes untoleranced specifications, provided for reference only.								
<ol><li>Speed, torque and current specifications are for operation with Allen Bradley drives.</li></ol>								
confidential and proprietary information Engineering Specification Electrical	al	Sheet	2	of	5			
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR MPM-B1304E-SJ74A		Size			Ver			
Automation		Α	10000	073869	01			
Dr. Scott Johnson Date C	08-26-09				••			

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	s are not painted.

## Feedback Specifications:

<ol> <li>SIN, COS waveform output:</li> </ol>			1(	024 sinusoid	s/rev		
<ol><li>SIN, COS waveform amplitude, ±</li></ol>	⊦ 10% <sup>.</sup>		1	.0 VAC peak			
3. SIN -, COS - voltage offset with re				.2 to 2.8 VD0	•		
4. EPWR 5V (encoder power) input	voltage:		N	I/A	-		
5. EPWR 5V continuous input curre				/A			
6. EPWR 5V inrush input current, m	hax, when connected to Kinetix6000	drive:	N	/A			
7. EPWR 9V (encoder power) input	voltage:		7.	.0 to 12.0 VD	C		
8. EPWR 9V continuous input curre			9/	0 mADC			
9. EPWR 9V inrush input current, m	nax, when connected to Kinetix6000	drive:	3.	.9 ADC			
10. TS+, TS- thermostat operating v	voltago mov:		20	50 Volts			
11. TS+, TS- thermostat continuous	s current, max, at 0.6 power factor:		1.	.6 Amps			
12. TS+, TS- thermostat continuous	s current, max, at 1.0 power factor:		2.	.5 Amps			
13. DATA+, DATA- signal type, rate			<b>ח</b>	S 485, 9600	baud		
14. Communication hierarchy: Enco	oder is slave, communication is exte	ernally initiated.					
15. Single turn absolute position val	lue range:	-	0	to 32,767 (1	5 bit)		
16. Absolute position data: Binary,	value increases with CW shaft rotat	ion viewing motor mountin	g face.				
17. Data (byte) format: Start bit, 8 c	data bits, parity bit, stop bit.						
18. Memory storage capacity, EEPF	ROM:		1:	28 bytes			
19. Encoder temperature data: Bina	ary value of encoder temperature in	degrees C.					
<u>Notes:</u> 1. "Ref" denotes untoleranced specil	fications, provided for reference only	/.					
	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specification	on Electrical	Shee	et <b>3</b>	of	5
				Size			

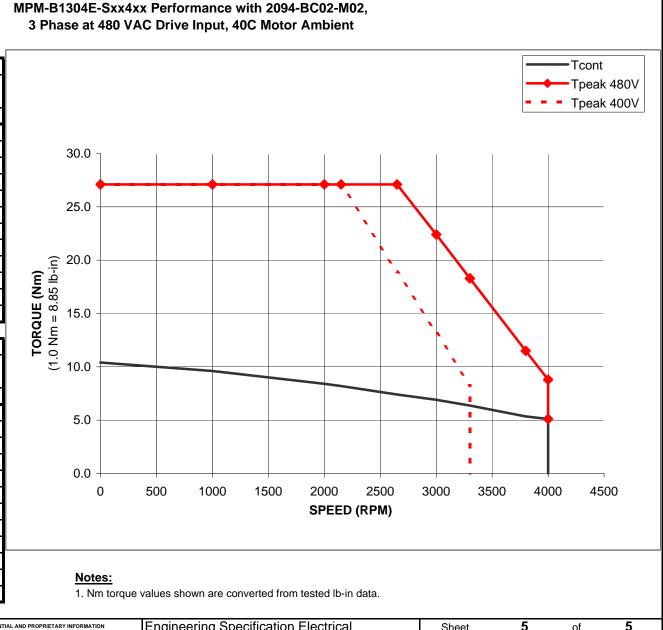
. Type: Spring-set holding brake, releases when voltage applied.	
2. Holding torque, max:	10.2 Nm (90 lb-in)
<ol> <li>Voltage input, +15/-10%, may be applied either polarity:</li> </ol>	24 VDC
I. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	0.64 ADC
5. Coil resistance, +/-10%, at 25C +/- 5C:	38 Ohms
<ol><li>Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:</li></ol>	42 Ohms
7. Release time delay (when voltage applied), Ref:	110 msec
B. 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.

	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specification Electrical					neet	4	of	5	
Rockwell	THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION		MPM-B130		7 4 4 4	Size	Ver				
Automation	OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN			4E-3J/	444	•		10000073869	00073869	10000073869	01
	PERMISSION OF ROCKWELL AUTOMATION, INC.	Dr.	Scott Johnson	Date	08-26-09	A				UI	





CONFIDENTIAL AND PROPRIETARY INFORMATION Engineering Specification Electrical					She	eet	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-B1304E-SJ74AA			MPM-B1304E-SJ74AA		Size		1000007	3869	Ver
	PERMISSION OF ROCKWELL AUTOMATION, INC.	Dr.	Scott Johnson	Date	08-26-09	A						