

<b>General Specifications:</b>										
1. Motor type: 3 phase, wye wir	nding, permanent magnet rotor, totally e	enclosed,	non-ventilated.							
2. Motor poles:					8					
Operating Speed, max						7000 RPM				
4. Base speed (max speed at peak torque), Ref:  5. Operating voltage at base speed:						6000 RPM				
5. Operating voltage at base spi	5. Operating voltage at base speed.					THO VAC KING				
<ol><li>Continuous stall torque, max, at max winding temperature in a 40C ambient:</li></ol>				6.55 Nm (58 lb-in)						
<ol><li>Winding temperature, max, in</li></ol>	n a 40C ambient:					140 degrees C				
8. Continuous stall current, max	:: ached to front mounting flange for contir					15.95 Amps 0 to peak				
9. Heatsink size, aluminum, atta	ached to front mounting flange for contir	nuous tor	que specifications	s:		305 x 305 x 12.7mm (12 x 12 x 0.5 inch)				
<ol><li>Peak stall current, max:</li></ol>						55 17 Amps 0 to pook				
12. Rated Speed (Speed at max	continous power)					4000				
<ol><li>Continuous output rating, m.</li></ol>	ax at rated speed:					1.45 kW (1.94 hp)				
14. Continuous torque, max, at	rated speed:					3.5 Nm	n (31 lb	o-in)		
15. Continuous current, Ref, at	rated speed:for direct connection to AC line):					7.8 An	nps 0 to	o pea	nk	
16. Operating voltage, Ref (Not	for direct connection to AC line):					480 V	AC RM	S		
17. Insulation class:						155C (Class F)				
19. Ke, +/-10%, phase to phase	18. Housing temperature, max:  19. Ke, +/-10%, phase to phase at 25C +/- 5C:					60 V/kRPM 0 to peak				
20. Kt (sine), Ref, at 25C +/- 5C	20. Kt (sine), Ref, at 25C +/- 5C:				0.496 Nm/Amp (4.39 lb-in/Amp) 0 to peak					
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:				0.84 Onms						
22. Winding inductance, Ref, phase to phase:				4.33 MH						
23. Dielectric rating of motor por	23. Dielectric rating of motor power connections (U, V, W), to ground for 1 second:				1600 VAC RIVIS 50/60 FIZ					
24. Audible noise, Ref, at 1 met	24. Audible noise, Ref, at 1 meter distance:				XX dBA					
25. Rotor inertia, +/- 10%:						0.0008	89 kg-m	n² (0.	00788 lb-in-sec²)	
26. Rotor balancing quality grad	le:					G-6.3				
<ol><li>27. Friction torque, Ref:</li></ol>						0.118 Nm (1.04 lb-in)				
28. Friction torque, Ref, with sha	aft seal option installed:					0.38 Nm (3.4 lb-in)				
28. Friction torque, Ref, with shaft seal option installed: 29. Cogging torque, Ref:					0.045 Nm (0.40 lb-in) peak to peak					
30. Thermal resistance, Ref, winding to ambient:										
31. Thermal time constant, Ref,	31. Thermal time constant, Ref, winding to ambient:					28 minutes				
32. Product weight, Ref:					6.4 kg (14 lb)					
33. Shipping weight, Ref:					7.63 kg (16.8 lb)					
34. Operating ambient temperature:				0C to 40C (32F to 104F)						
Notes:						-				
1. "Ref" denotes untoleranced sp	pecifications, provided for reference only	y.								
2. Speed, torque and current spe	ecifications are for operation with Allen	Bradley o	Irives.							
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General Specifications, continued:	200 to 700 ( 205 to 4505)
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. Orial Malerial.	Oleei, 1144
41. Paint, color:	Black
42. Shaft, key (if provided), front mounting surface, and connector mating surfaces are not painted.	
Feedback Specifications:	
1. SIN, COS waveform output:	1024 sinusoids/rev
2. SIN, COS waveform amplitude, ± 10%:	1.0 VAC peak to peak
3. SIN -, COS - voltage offset with respect to ECOM ±0.3 VDC:	2.5 VDC
4. EPWR 5V (encoder power) input voltage:	N/A
5. EPWR 5V continuous input current,max, at 5.0 VDC:	N/A
6. EPWR 5V inrush input current, max, when connected to Kinetix6000 drive:	N/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:	80 mADC
9. EPWR 9V inrush input current, max, when connected to Kinetix6000 drive:	3.9 ADC
10. TS+, TS- thermostat operating voltage, max:	250 Volts
11. TS+, TS- thermostat continuous current, max, at 0.6 power factor:	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:	DC 40F 0600 band
14. Communication hierarchy: Encoder is slave, communication is externally initiated.	
15. Single turn absolute position value range:	0 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:	128 bytes
<ol> <li>Encoder temperature data: Binary value of encoder temperature in degrees C.</li> </ol>	

## Notes:

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Engineering Specification Electrical

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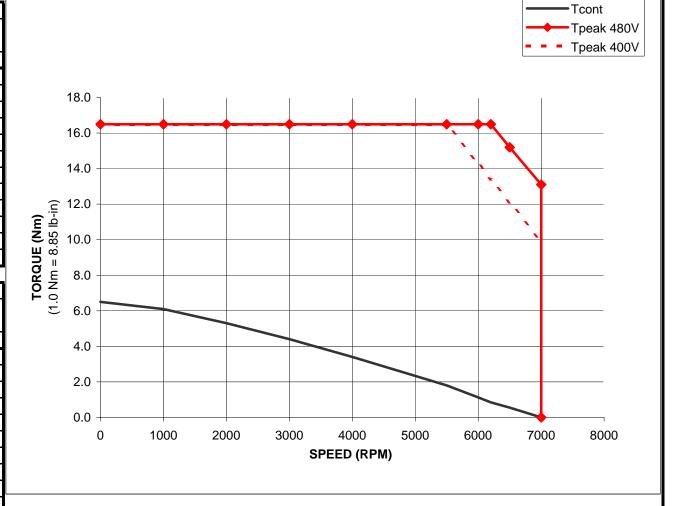
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## MPM-B1153T-Mxx2xx Performance with 2094-BC04-M03, 3 Phase at 480 VAC Drive Input, 40C Motor Ambient

	TORQUE					
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V			
KEW	Nm	Nm	Nm			
0	6.5	16.5	16.5			
1000	6.1	16.5	16.5			
2000	5.3	16.5	16.5			
3000	4.4	16.5	16.5			
4000	3.4	16.5	16.5			
5500	1.8	16.5	16.5			
6000	1.13	16.5	14.3			
6200	0.85	16.5	13.4			
6500	0.55	15.2	12.1			
7000	0	13.1	9.9			
7000	#N/A	0	#N/A			
#N/A	#N/A	#N/A	#N/A			

	TORQUE				
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V		
KEIVI	lb-in	lb-in	lb-in		
0	57.5	146.0	146.0		
1000	54.0	146.0	146.0		
2000	46.9	146.0	146.0		
3000	38.9	146.0	146.0		
4000	30.1	146.0	146.0		
5500	15.9	146.0	146.0		
6000	10.0	146.0	126.6		
6200	7.5	146.0	118.6		
6500	4.9	134.5	107.1		
7000	0.0	115.9	87.6		
7000	#N/A	0.0	#N/A		
7000	#N/A	#N/A	#N/A		



## Notes:

1. Nm torque values shown are converted from tested lb-in data.



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Engineering Specification Electrical					
MPM-B1153T-MJ72AA					
Dr.	Scott Johnson	Date	08-26-09		

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