

General Specifications:								
1. Motor type: 3 phase, wye wi	nding, permanent magnet rotor, totally	enclosed, non-ventilated.						
2. Motor poles:				8				
Operating Speed, max				7000 RPM				
4. Base speed (max speed at peak torque), Ref: 6000 RPM								
Operating voltage at base sp	eed:			440 VAC RMS				
6. Continuous stall torque, max	, at max winding temperature in a 40C a	ambient:		6.55 Nm (58	lb-in)			
Winding temperature, max, ir	n a 40C ambient:			140 degrees	s C			
8. Continuous stall current, max	c ached to front mounting flange for contin			15.95 Amps	0 to peak			
9. Heatsink size, aluminum, atta	ached to front mounting flange for contir	nuous torque specifications	S:	305 x 305 x	12.7mm (12 x 12 x 0.5 inch)			
Peak stall torque, max:				19.8 Nm (17	'5 lb-in)			
11. Peak stall current, max:					0 to peak			
12. Rated Speed (Speed at max	continous power)			4000				
					94 hp)			
14. Continuous torque, max, at	rated speed:			3.5 INII (31 I	b-in)			
15. Continuous current, Ref, at	rated speed: rated speed: rated speed: rated speed: for direct connection to AC line):			7.8 Amps 0	to peak			
Operating voltage, Ref (Not	for direct connection to AC line):			480 VAC RN	MS			
17. Insulation class.				1000 (Class	" 155C (Class F)			
Housing temperature, max:	e at 25C +/- 5C:			125C (257F)				
19. Ke, +/-10%, phase to phase	e at 25C +/- 5C:			60 V/kRPM	•			
20. Kt (Sille), Kei, at 250 +/- 50	<i>/</i> .			U.HOU INIII/A	mp (4.39 lb-in/Amp) 0 to peak			
21. Winding resistance, +/- 10%	6, phase to phase at 25C +/- 5C:			0.84 ohms				
Winding inductance, Ref, pl	nase to phase:			4.33 MH				
23. Dielectric rating of motor po	wer connections (U,V,VV) , to ground for	1 second:		1000 VAC R	RMS 50/60 Hz			
24. Audible noise, Ref, at 1 met	ter distance:			XX dBA				
25. Rotor inertia, +/- 10%:	J			0.00089 kg-	m² (0.00788 lb-in-sec²)			
Rotor balancing quality grad	de:			G-6.3				
27. Friction torque, Ref:				0.118 Nm (1	.04 lb-in)			
28. Friction torque, Ref, with sh	aft seal option installed:			0.38 Nm (3.4	4 lb-in)			
29. Cogging torque, Ref:				0.045 Nm (0	.40 lb-in) peak to peak			
30. Thermal resistance, Ref, wi	nding to ambient:			0.60 degree	s C/watt			
31. Thermal time constant, Ref,	, winding to ambient:			28 minutes				
32. Product weight, Ref:				8.1 kg (17.8	lb)			
33. Shipping weight, Ref:					6 lb)			
Operating ambient tempera	ture:			0C to 40C (3	32F to 104F)			
Notes:								
 "Ref" denotes untoleranced s 	pecifications, provided for reference onl	y.						
Speed, torque and current sp	ecifications are for operation with Allen							
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35. Storage ambient temperature:	-30C to 70C (-22F to 158F)
36. Relative humidity, non-condensing:	
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 painted.	
Feedback Specifications:	
1. SIN, COS waveform output:	1024 sinusoids/rev
2. SIN, COS waveform amplitude, ± 10%: 3. SIN -, COS - voltage offset with respect to ECOM ±0.3 VDC:	2.5 VDC
4. EPWR 5V (encoder power) input voltage:	N/A
EPWR 5V continuous input current,max, at 5.0 VDC: EPWR 5V inrush input current, max, when connected to Kinetix6000 drive: EPWR 9V (encoder power) input voltage:	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:	RS 485, 9600 baud
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.	400 h. 400
17. Data (byte) format: Start bit, 8 data bits, parity bit, stop bit. 18. Memory storage capacity, EEPROM:	128 bytes

Notes:

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Brake Specifications:

1.	Type: Spring-set holding	brake	releases	when voltage applied.

	. Type. Opining sectionally states, released when veltage applied.	
2	. Holding torque, max:	4.18 Nm (37 lb-in)
3	3. Voltage input, +15/-10%, may be applied either polarity:	24 VDC
4	. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	0.50 ADC
5	i. Coil resistance, +/-10%, at 25C +/- 5C:	48 Ohms
6	5. Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:	53 Ohms
7	'. Release time delay (when voltage applied), Ref:	50 msec
8	B. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	
	in external control circuit:	110 msec
ç). Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device	
	in external control circuit:	20 msec
1	Rotational backlash, Ref, with brake engaged:	45 arc minutes
1	Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:	1200 VAC RMS 50/60 Hz

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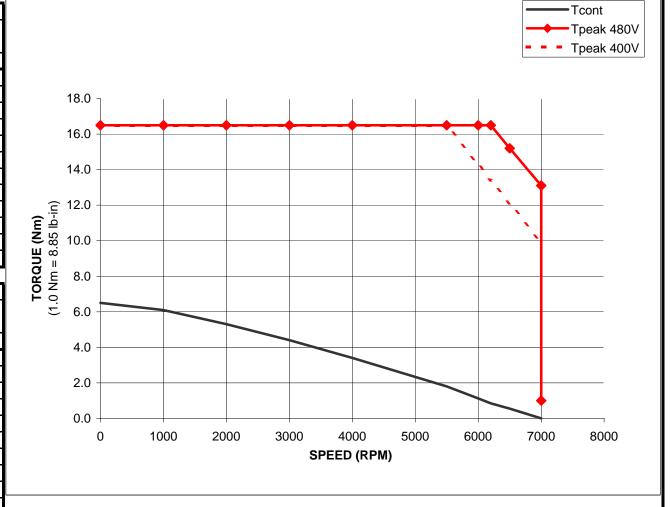
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MPM-B1153T-Mxx4xx Performance with 2094-BC04-M03, 3 Phase at 480 VAC Drive Input, 40C Motor Ambient

	TORQUE			
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V	
KFIVI	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	1	#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	8.9	#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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