

General Specifications:							
1. Motor type: 3 phase, wye wi	nding, permanent magnet rotor, totally e	enclosed, non-ventilated.					
2. Motor poles:			8				
Operating Speed, max			2750 RPM	2750 RPM			
			1500 RPM	1500 RPM			
5. Operating voltage at base speed:			440 VAC RN	440 VAC RMS			
6. Continuous stall torque, max	, at max winding temperature in a 40C a	ambient:		10.2 Nm (90	10.2 Nm (90 lb-in)		
Winding temperature, max, ir	n a 40C ambient:			140 degrees	140 degrees C		
8. Continuous stall current, max	c ached to front mounting flange for contin			7.00 Amps () 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)			
10. Peak stall torque, max:				27.1 Nm (24	"27.1 Nm (240 lb-in)		
11. Peak stall current, max:				22.30 Amps	0 to peak		
12. Rated Speed (Speed at max	continous power)			3500			
13. Continuous output rating, m	continous power) ax at rated speed:			2.00 kW (2.6	68 hp)		
14. Continuous torque, max, at	rated speed:			7.6 Nm (67 l	b-in)		
15. Continuous current, Ref, at	rated speed: for direct connection to AC line):			4.8 Amps 0	to peak		
Operating voltage, Ref (Not	for direct connection to AC line):			480 VAC RI	<i>I</i> IS		
17. Insulation class:				"155C (Class F)			
Housing temperature, max:	e at 25C +/- 5C:			125C (257F	"125C (257F)		
19. Ke, +/-10%, phase to phase	e at 25C +/- 5C:			212 V/kRPM 0 to peak			
20. Ni (Silie), Nei, al 200 +/- 00	' .			1.75 Nill/Allip (15.52 lb-ll/Allip) 0 to peak			
20. Kt (sine), Ref, at 25C +/- 5C: 21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:			4.249 ohms				
Winding inductance, Ref, pl	nase to phase:			43.98 mH			
23. Dielectric rating of motor po	wer connections (U, V, VV), to ground for	1 second:		TOUU VAC R	RMS 50/60 Hz		
24. Audible noise, Ref, at 1 met	er distance:			XX dBA			
25. Rotor inertia, +/- 10%:				U.001223 Kg	-m² (0.01082 lb-in-sec²)		
26. Rotor balancing quality grad	de:			G-0.3			
27. Friction torque, Ref:				0.15 Nm (1.35 lb-in)			
28. Friction torque, Ref, with sh	aft seal option installed:			0.15 Nm (1.3 lb-in)			
29. Cogging torque, Ref:				0.060 Nm (0.53 lb-in) peak to peak			
30. Thermal resistance, Ref, wi	30. Thermal resistance, Ref, winding to ambient:		0.49 degrees C/watt				
31. Thermal time constant, Ref.	winding to ambient:			30.5 minutes			
32. Product weight, Ref:	31. Thermal time constant, Ref, winding to ambient: 32. Product weight, Ref:		11.7 kg (25.7 lb)				
33. Shipping weight, Ref:	33. Shipping weight, Ref:						
34. Operating ambient temperature:		0C to 40C (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
39 Shock may 6 maga duration:	20 a neak
39. Vibration, max, 30 to 2000 Hz:	
40. Shaft material: 41. Paint, color:	
42. Shaft, key (if provided), front mounting surface, and connector mating surfaces are not painted.	Didok
42. Shart, key (ii 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. EPWK 5V (encoder power) input voltage.	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
40 TO TO 1	250 \/alta
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:	
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.	128 bytes
17. Data (byte) format: Start bit, 8 data bits, parity bit, stop bit. 18. Memory storage capacity, EEPROM:	120 09163

Notes:

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Brake Specifications:

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

10. Rotational backlash, Ref, with brake engaged:

71 1 0 7	
2. Holding torque, max:	10.2 Nm (90 lb-in)
3. 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
6. 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
8. 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

11. Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second: 1200 VAC RMS 50/60 Hz

Notes

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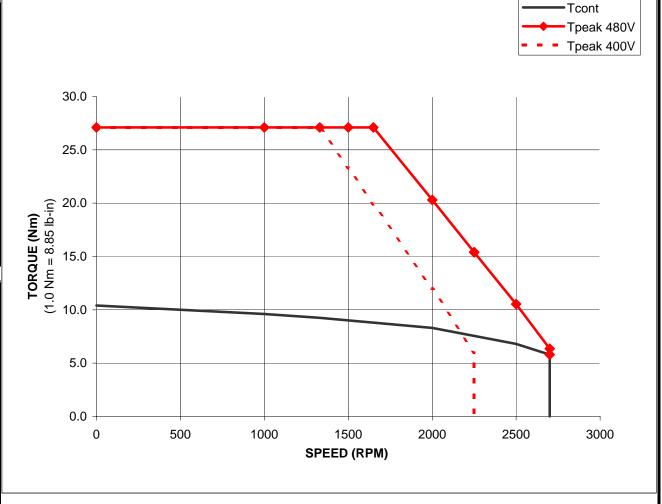
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48 arc minutes

MPM-B1304C-Mxx4xx Performance with 2094-BC01-M01, 3 Phase at 480 VAC Drive Input, 40C Motor Ambient

	TORQUE			
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V	
KEW	Nm	Nm	Nm	
0	10.4	27.1	27.1	
1000	9.6	27.1	27.1	
1330	9.25	27.1	27.1	
1500	9	27.1	23.3	
1650	8.8	27.1	19.9	
2000	8.3	20.3	11.97	
2250	7.55	15.4	5.98	
2250	7.55	15.4	0	
2500	6.8	10.53	#N/A	
2700	5.8	6.35	#N/A	
2700	0	5.8	#N/A	
#N/A	#N/A	#N/A	#N/A	

	TORQUE			
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V	
KFIVI	lb-in	lb-in	lb-in	
0	92.0	239.9	239.9	
1000	85.0	239.9	239.9	
1330	81.9	239.9	239.9	
1500	79.7	239.9	206.2	
1650	77.9	239.9	176.1	
2000	73.5	179.7	105.9	
2250	66.8	136.3	52.9	
2250	66.8	136.3	0.0	
2500	60.2	93.2	#N/A	
2700	51.3	56.2	#N/A	
2700	0.0	51.3	#N/A	
2700	#N/A	#N/A	#N/A	



Notes:

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

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