

General Specifications:								
1. Motor type: 3 phase, wye wi	nding, permanent magnet rotor, totally	enclosed, non-ventilated.						
2. Motor poles:				8				
Operating Speed, max				2750 R	 2750 RPM			
4. Base speed (max speed at peak torque), Ref:				1500 R	1500 RPM			
Operating voltage at base sp	eed:			440 VA	440 VAC RMS			
6. Continuous stall torque, max	, at max winding temperature in a 40C a	ambient:		10.2 N	10.2 Nm (90 lb-in)			
Winding temperature, max, in	n a 40C ambient:			140 de	grees C	,		
8. Continuous stall current, max	c ached to front mounting flange for conti			7.00 Aı	7.00 Amps 0 to peak			
9. Heatsink size, aluminum, atta	ached to front mounting flange for conti	nuous torque specifications	S:	305 x 3	"305 x 305 x 12.7mm (12 x 12 x 0.5 inch)			
10. Peak stall torque, max:				27.1 N	m (240 l	lb-in)		
11. Peak stall current, max:				22.30 /	Amps 0	to peak		
12. Rated Speed (Speed at max	c continous power) nax at rated speed:			3500				
13. Continuous output rating, m	nax at rated speed:			2.00 k\	N (2.68	hp)		
14. Continuous torque, max, at	rated speed:			7.6 Nm	n (67 lb-i	in)		
15. Continuous current, Ref, at	rated speed:			4.8 Am	ps 0 to	peak		
16. Operating voltage, Ref (Not	rated speed: for direct connection to AC line):			480 VA	AC RMS	;		
17. Insulation class:				1550 (Class F)		
Housing temperature, max:				125C (
19. Ke, +/-10%, phase to phase	e at 25C +/- 5C:			212 V/I		to peak		
18. Housing temperature, max: 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 20. Kt (sine), Ref, at 25C +/- 5C:			1.73 1	1.73 Nill/Allip (13.32 ib-ill/Allip) 0 to peak				
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:			4.249 (4.249 ohms				
22. Winding inductance, Ref, pl	hase to phase:			43.98 r				
23. Dielectric rating of motor po	Winding inductance, Ref, phase to phase: Dielectric rating of motor power connections (U,V,W), to ground for 1 second:			1000 VAC KIVIS 30/00 HZ				
24. Audible noise, Ref, at 1 meter distance:			XX dBA					
25. Rotor inertia, +/- 10%:	J			0.0012	23 kg-m	n² (0.01082 lb-in-sec²)		
26. Rotor balancing quality grad	de:			G-6.3				
27. Friction torque, Ref:				0.15 N	m (1.35	lb-in)		
28. Friction torque, Ref, with sh	aft seal option installed:			0.15 N	m (1.3 lk	b-in)		
29. Cogging torque, Ref:				0.060 1	Nm (0.5	3 lb-in) peak to peak		
30. Thermal resistance, Ref, wi	nding to ambient:			0.49 de	egrees C	C/watt		
31. Thermal time constant, Ref	, winding to ambient:			30.5 m				
32. Product weight, Ref:				11.7 KQ				
33. Shipping weight, Ref:					kg (28.5	lb)		
Operating ambient tempera	ture:			0C to 4	10C (32F	F 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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		Dr. Scott Johnson	Date 08-26	-09			0 1	

General Specifications, continued: 35. Storage ambient temperature:	-30C to 70C (-22F to 158F)
36. Relative humidity, non-condensing: 37. Liquid / dust protection:	
37. Elquid / dust protection: 38. Shock, max, 6 msec duration:	
	2.5 g peak
40. Shaft material: 41. Paint, color:	
42. Shaft, key (if provided), front mounting surface, and connector mating surfaces are not painted.	
12. Chart, not (ii provided), note modifically carried.	
Feedback Specifications:	4004 sinus side fees
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:	2.2 to 2.8 VDC
4. EPWR 5V (encoder power) input voltage:	IN/A
5. EPWR 5V (encoder power) input voltage: 6. EPWR 5V continuous input current, max, at 5.0 VDC: 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
10. TS+, TS- thermostat operating voltage, max:	250 Volts
11. TS+, TS- thermostat continuous current, max, at 0.6 power factor:	1.6 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)
10. Absolute position data. Binary, value increases with ow shart rotation viewing motor mounting race.	
17. Data (byte) format: Start bit, 8 data bits, parity bit, stop bit.	
18. Memory storage capacity, EEPROM:	128 bytes
19. Encoder temperature data: Binary value of encoder temperature in degrees C.	

Notes:

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Brake Specifications:

1.	Type: Spri	ng-set holding	brake.	releases	when '	voltage	applied.

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.		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:

10. Rotational backlash, Ref, with brake engaged: 48 arc minutes 10. Rotational backlash, Ref, with brake engaged: 48 arc minutes
 11. Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second: 1200 VAC RMS 50/60 Hz

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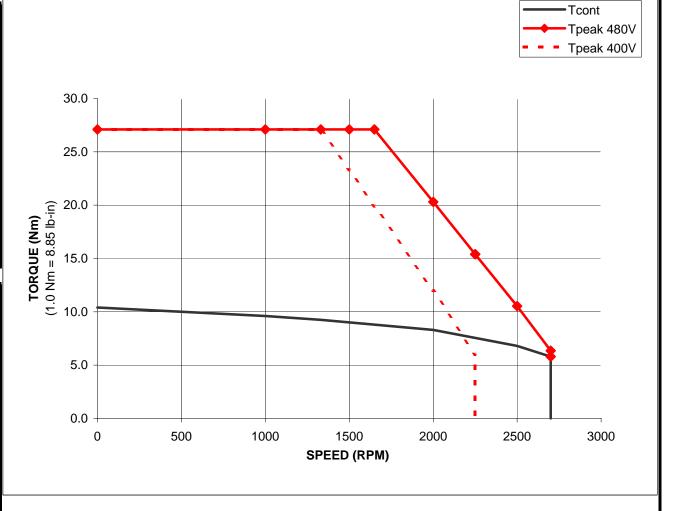
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25 msec

MPM-B1304C-Sxx4xx 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	

Ī	TORQUE					
	1011402					
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V			
KLIM	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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