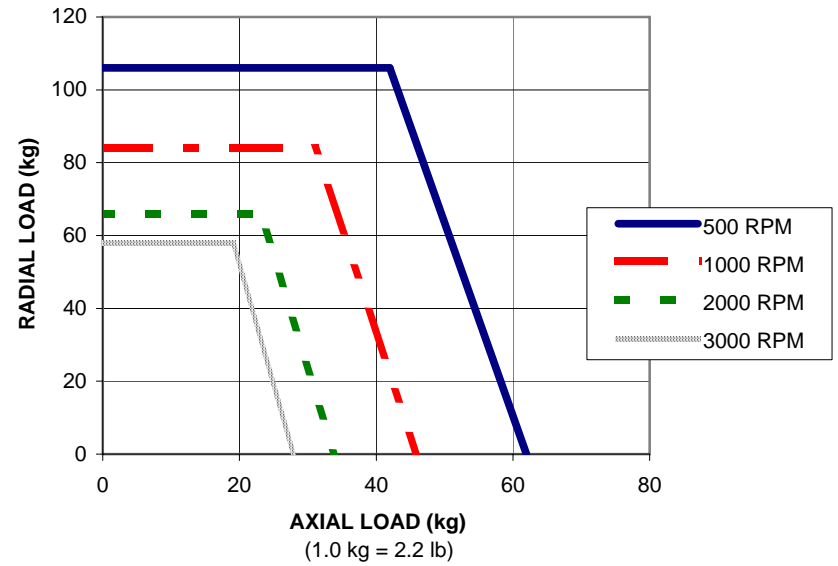


SHAFT LOAD RATING for 20,000 hour L10 bearing life and RADIAL LOAD applied mid-way along shaft extension




NOTES:

General Specifications:

1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.	
2. Motor poles:	8
3. Operating Speed, max	3000 RPM
4. Base speed (max speed at peak torque), Ref:	1600 RPM
5. Operating voltage at base speed:	440 VAC RMS
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	2.18 Nm (193 lb-in)
7. Winding temperature, max, in a 40C ambient:	140 degrees C
8. Continuous stall current, max:	3.61 Amps 0 to peak
9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications:	305 x 305 x 12.7mm (12 x 12 x 0.5 inch)
10. Peak stall torque, max:	13.5 Nm (119 lb-in)
11. Peak stall current, max:	12.42 Amps 0 to peak
12. Rated Speed (Speed at max continuous power)	2500
13. Continuous output rating, max at rated speed:	1.20 kW (1.61 hp)
14. Continuous torque, max, at rated speed:	4.4 Nm (39 lb-in)
15. Continuous current, Ref, at rated speed:	3.2 Amps 0 to peak
16. Operating voltage, Ref (Not for direct connection to AC line):	480 VAC RMS
17. Insulation class:	155C (Class F)
18. Housing temperature, max:	125C (257F)
19. Ke, +/-10%, phase to phase at 25C +/- 5C:	186 V/kRPM 0 to peak
20. Kt (sine), Ref, at 25C +/- 5C:	1.54 Nm/Amp (13.61 lb-in/Amp) 0 to peak
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	10.45 ohms
22. Winding inductance, Ref, phase to phase:	62.76 mH
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:	1800 VAC RMS 50/60 Hz
24. Audible noise, Ref, at 1 meter distance:	XX dBA
25. Rotor inertia, +/- 10%:	0.00077 kg-m ² (0.00681 lb-in-sec ²)
26. Rotor balancing quality grade:	G-6.3
27. Friction torque, Ref:	0.09 Nm (0.80 lb-in)
28. Friction torque, Ref, with shaft seal option installed:	0.38 Nm (3.4 lb-in)
29. Cogging torque, Ref:	0.042 Nm (0.37 lb-in) peak to peak
30. Thermal resistance, Ref, winding to ambient:	0.54 degrees C/watt
31. Thermal time constant, Ref, winding to ambient:	24.5 minutes
32. Product weight, Ref:	5.2 kg (11.4 lb)
33. Shipping weight, Ref:	6.8 kg (14.98 lb)
34. Operating ambient temperature:	0C to 40C (32F to 104F)

Notes:

- "Ref" denotes untoleranced specifications, provided for reference only.
- Speed, torque and current specifications are for operation with Allen Bradley drives.

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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 are not painted.

Feedback Specifications:

- 1. SIN, COS waveform output: 1024 sinusoids/rev
- 2. SIN, COS waveform amplitude, $\pm 10\%$: 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: 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: 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.
- 18. Memory storage capacity, EEPROM: 128 bytes
- 19. Encoder temperature data: Binary value of encoder temperature in degrees C.

Notes:

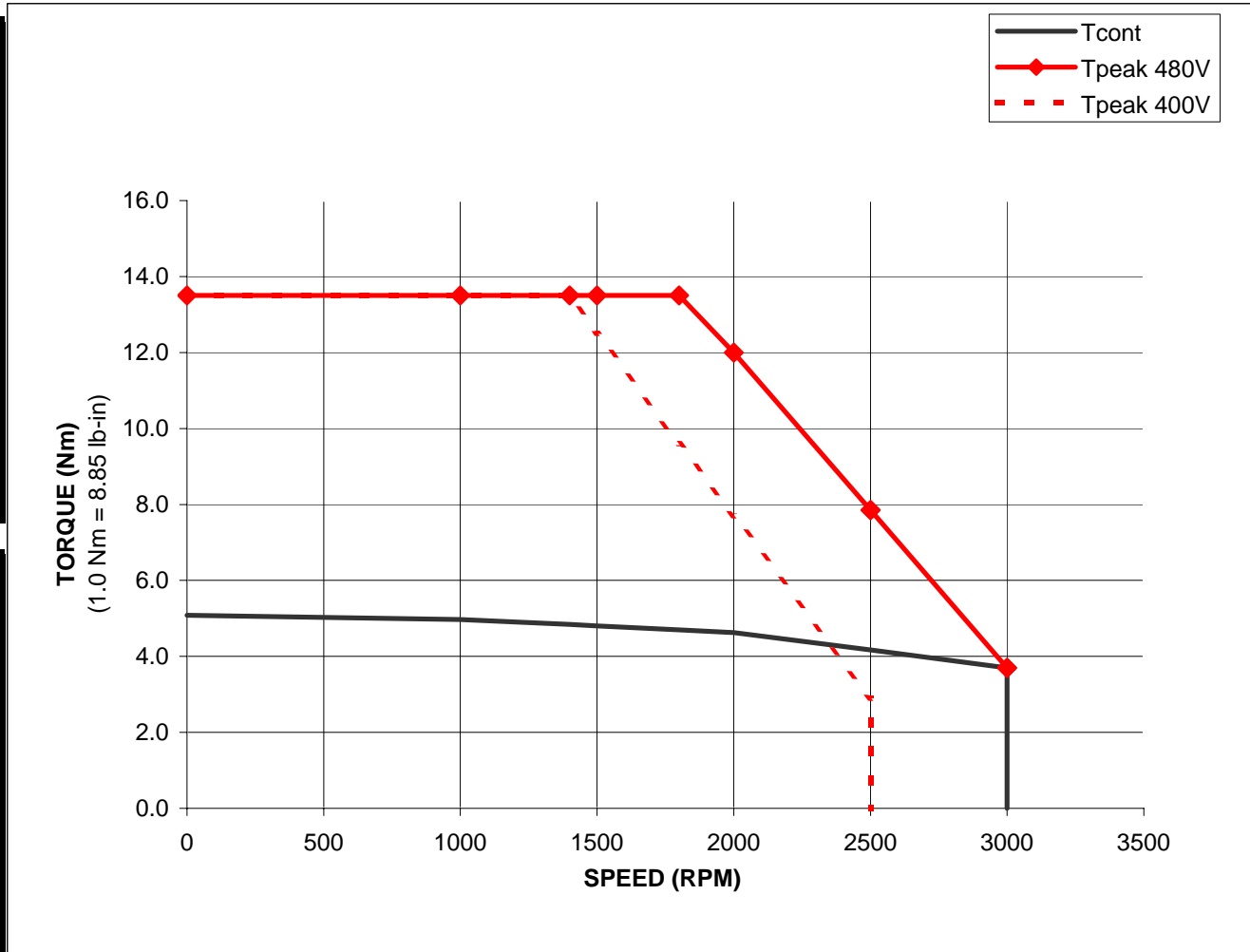
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**MPM-B1152C-Sxx2xx Performance with 2094-BC01-MP5,
3 Phase at 480 VAC Drive Input, 40C Motor Ambient**

SPEED RPM	TORQUE		
	Tcont	Tpeak 480V	Tpeak 400V
	Nm	Nm	Nm
0	5.08	13.5	13.5
1000	4.97	13.5	13.5
1400	4.84	13.5	13.5
1500	4.8	13.5	12.5
1800	4.7	13.5	9.6
2000	4.63	12	7.7
2500	4.17	7.85	2.9
2500	4.17	7.85	0
3000	3.7	3.7	#N/A
3000	0	3.7	#N/A
#N/A	#N/A	#N/A	#N/A
#N/A	#N/A	#N/A	#N/A

SPEED RPM	TORQUE		
	Tcont	Tpeak 480V	Tpeak 400V
	lb-in	lb-in	lb-in
0	45.0	119.5	119.5
1000	44.0	119.5	119.5
1400	42.8	119.5	119.5
1500	42.5	119.5	110.6
1800	41.6	119.5	85.0
2000	41.0	106.2	68.2
2500	36.9	69.5	25.7
2500	36.9	69.5	0.0
3000	32.7	32.7	#N/A
3000	0.0	32.7	#N/A
#N/A	#N/A	#N/A	#N/A
#N/A	#N/A	#N/A	#N/A



Notes:

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



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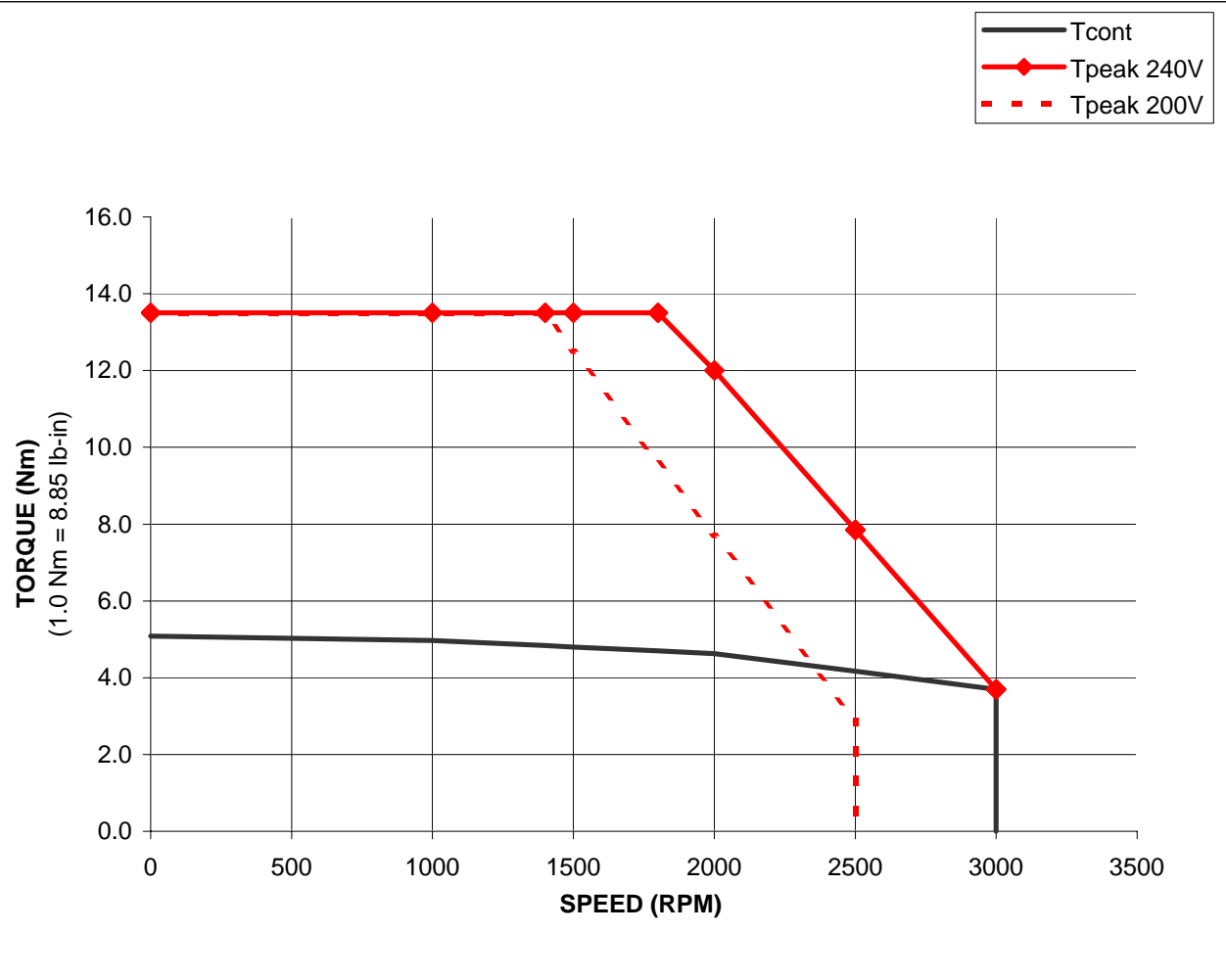
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**MPM-B1152C-Sxx2xx Performance with 2094-BC01-M01,
3 Phase at 480 VAC Drive Input, 40C Motor Ambient**

SPEED RPM	TORQUE		
	Tcont	Tpeak 240V	Tpeak 200V
	Nm	Nm	Nm
0	5.08	13.5	13.5
1000	4.97	13.5	13.5
1400	4.84	13.5	13.5
1500	4.8	13.5	12.5
1800	4.7	13.5	9.6
2000	4.63	12	7.7
2500	4.17	7.85	2.9
2500	4.17	7.85	0
3000	3.7	3.7	#N/A
3000	0	3.7	#N/A
#N/A	#N/A	#N/A	#N/A
#N/A	#N/A	#N/A	#N/A

SPEED RPM	TORQUE		
	Tcont	Tpeak 240V	Tpeak 200V
	lb-in	lb-in	lb-in
0	45.0	119.5	119.5
1000	44.0	119.5	119.5
1400	42.8	119.5	119.5
1500	42.5	119.5	110.6
1800	41.6	119.5	85.0
2000	41.0	106.2	68.2
2500	36.9	69.5	25.7
2500	36.9	69.5	0.0
3000	32.7	32.7	#N/A
3000	0.0	32.7	#N/A
#N/A	#N/A	#N/A	#N/A
#N/A	#N/A	#N/A	#N/A



Notes:

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



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