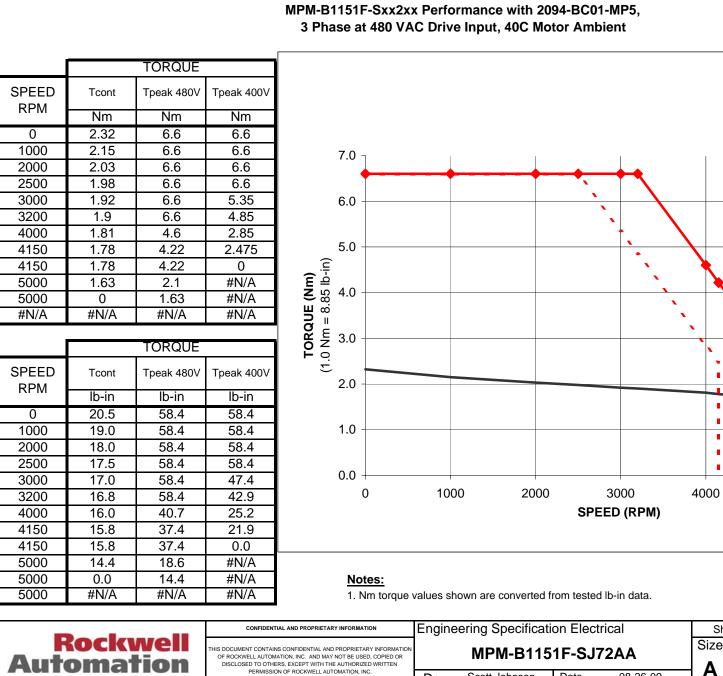


General Specifications:									
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.									
2. Motor poles:	8								
3. Operating Speed, max	5000 F	RPM							
<ol> <li>Base speed (max speed at peak torque), Ref:</li> <li>Operating voltage at base speed:</li> </ol>	2900 RPM								
J. Operaling vollage al base speed.									
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	2.18 Nm (19.3 lb-in)								
7. Winding temperature, max, in a 40C ambient:	140 degrees C								
8. Continuous stall current, max:	2.71 Amps 0 to peak								
<ol> <li>8. Continuous stall current, max:</li> <li>9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications:</li> </ol>	305 x 305 x 12.7mm (12 x 12 x 0.5 inch)								
10. Peak stall torque, max:	6.6 Nr	6 Nm (58 lb-in)							
11. Peak stall current, max:	9.91 A	mps 0	to pea	k					
12. Rated Speed (Speed at max continous power)	4000								
13. Continuous output rating, max at rated speed:	0.75 k	W (1.0 <sup>-</sup>	1 hp)						
14. Continuous torque, max, at rated speed:			1.81 Nm (16 lb-in)						
15. Continuous current, Ref, at rated speed:			2.1 Amps 0 to peak						
<ul><li>15. Continuous current, Ref, at rated speed:</li><li>16. Operating voltage, Ref (Not for direct connection to AC line):</li></ul>			480 VAC RMS						
17. Insulation class:									
18. Housing temperature, max:	125C	125C (257F)							
<ol> <li>Housing temperature, max:</li> <li>Ke, +/-10%, phase to phase at 25C +/- 5C:</li> <li>Ke, to phase to phase at 25C +/- 5C:</li> </ol>	114 V/	/kRPM	0 to pe	eak					
20. Kt (sine), Ref, at 250 +/- 50:	0.94 N	lm/Amp	) (8.34	lb-in/Amp	o) 0 to peak				
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	10.283	3 ohms							
22. Winding inductance, Ref, phase to phase:	47.15	mΗ							
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:	1800	VAC R	/NS 50	60 Hz					
24. Audible noise, Ref, at 1 meter distance:	XX dB	A							
25. Rotor inertia, +/- 10%:	0.0006	65 kg-m	n² (0.00	0575 lb-in	-sec²)				
26. Rotor balancing quality grade:	G-6.3								
27. Friction torque, Ref:		lm (0.6	5 lb-in)	)					
28. Friction torque, Ref, with shaft seal option installed:		lm (1.9	lb-in)						
29. Cogging torque, Ref:		Nm (0.:	25 lb-ir	n) peak to	peak				
30. Thermal resistance, Ref, winding to ambient:	0.71 d	egrees	C/wat	t					
31. Thermal time constant, Ref, winding to ambient:	16 mir	nutes							
32. Product weight, Ref:	3.45 k	g (7.6 l	b)						
33. Shipping weight, Rei:	4.00 K	g (10.2							
34. Operating ambient temperature:	0C to	40C (32	2F to 1	04F)					
Notes.									
1. "Ref" denotes untoleranced specifications, provided for reference only.									
2. Speed, torque and current specifications are for operation with Allen Bradley drives.									
confidential and proprietary information Engineering Specification Electrical		She	et	2	of	4			
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR MPM-B1151F-SJ72AA		Size		400000		Ver			
Automation Discusses Except with the authorized written		Α		100000	1/3869	01			
Dr. Scott Johnson Date 08-26	9-09					•			

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:

Feedback Specifications:		1024 ainunaida/ray
1. SIN, COS waveform output:	1024 sinusoids/rev	
2. SIN, COS waveform amplitud	1e, ± 10%:	1.0 VAC peak to peak
3. SIN -, COS - voltage offset w	ith respect to ECOM ±0.3 VDC:	2.2 to 2.8 VDC
4. EFWR 5V (encoder power) i	iput voltage.	
		IN/A
6. EPWR 5V inrush input curren	nt, max, when connected to Kinetix6000 drive:	N/A
7. EPWR 9V (encoder power)	nput voltage:	7.0 to 12.0 VDC
<ol><li>EPWR 9V continuous input of</li></ol>	urrent.max. at 9.0 VDC:	80 mADC
9. EPWR 9V inrush input curren	3.9 ADC	
<ol><li>TS+, TS- thermostat operat</li></ol>	250 Volts	
11. TS+, TS- thermostat continu	uous current, max, at 0.6 power factor:	1.6 Amps
12. TS+, TS- thermostat continu	uous current, max, at 1.0 power factor:	2.5 Amps
14. Communication hierarchy:	Encoder is slave, communication is externally initiated.	
15. Single turn absolute position	n value range:	0 to 32,767 (15 bit)
16. Absolute position data: Bin	ary, value increases with CW shaft rotation viewing motor mount	ting face.
17. Data (byte) format: Start bi	t, 8 data bits, parity bit, stop bit.	
18. Memory storage capacity, E	EPROM:	128 bytes
19. Encoder temperature data:	Binary value of encoder temperature in degrees C.	
Notes: 1. "Ref" denotes untoleranced s	pecifications, provided for reference only.	
	pecifications, provided for reference only.	tion Electrical Sheet <b>3</b> of <b>4</b>

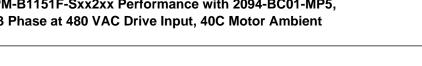


PERMISSION OF ROCKWELL AUTOMATION, INC.

Dr.

Scott Johnson

Date



## 4000 5000 6000 Sheet 4 of 4

08-26-09

10000073869

Ver

01

Tcont Tpeak 480V

Tpeak 400V