

General Specifications:					
1. Motor type: 3 phase, we winding, permanent magnet rotor, totally enclosed, non-ventilated.					
2. Motor poles:	8				
3. Operating Speed, max	5000 RF	PM			
 Base speed (max speed at peak torque), Ref: Operating voltage at base speed: 	2900 RF	PM			
	110 1/10	CRMS			
Continuous stall torque, max, at max winding temperature in a 40C ambient:	2.18 Nm	n (19.3 lb-ii	n)		
7. Winding temperature, max, in a 40C ambient:	140 deg	rees C			
8. Continuous stall current, max:	2.71 Am	ps 0 to pe	ak		
 8. Continuous stall current, max: 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications: 	305 x 30)5 x 12.7m	nm (12 x 12 x 0	.5 inch)	
10. Peak stall torque, max:	6.6 Nm	(58 lb-in)			
11. Peak stall current, max:		ps 0 to pe	ak		
12. Rated Speed (Speed at max continous power)	4000				
		' (1.01 hp)			
14. Continuous torque, max, at rated speed:	1.81 Nm	n (16 lb-in)			
 13. Continuous output rating, max at rated speed: 14. Continuous torque, max, at rated speed: 15. Continuous current, Ref, at rated speed: 16. Operating voltage, Ref (Not for direct connection to AC line): 	2.1 Amp	os 0 to pea	ık		
16. Operating voltage, Ref (Not for direct connection to AC line):	480 VA0	CRMS			
17. Insulation class: 155C (Class F)					
18. Housing temperature, max:	125C (2	57F)			
 Housing temperature, max: Ke, +/-10%, phase to phase at 25C +/- 5C: Ke (circl) Det at 250 c/ 50 	114 V/kl	RPM 0 to p	oeak		
20. Kt (sine), Ref, at 250 +/- 50:	0.94 MI	n/Amp (8.3	4 lb-in/Amp) 0	to peak	
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	10.283 0	ohms			
22. Winding inductance, Ref, phase to phase:	47.15 m	Н			
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:	1800 VA	AC RMS 50	0/60 Hz		
24. Audible noise, Ref, at 1 meter distance:	XX dBA				
25. Rotor inertia, +/- 10%:	0.00065	kg-m² (0.0	00575 lb-in-sea	C ²)	
26. Rotor balancing quality grade:	G-6.3				
27. Friction torque, Ref:		n (0.65 lb-ii	n)		
28. Friction torque, Ref, with shaft seal option installed:	0.04.11	n (1.9 lb-in))		
29. Cogging torque, Ref:		m (0.25 lb·	-in) peak to pea	ak	
30. Thermal resistance, Ref, winding to ambient:		grees C/wa	att		
31. Thermal time constant, Ref, winding to ambient:	16 minu	tes			
32. Product weight, Ref:	5.2 kg (1	11.4 lb)			
33. Shipping weight, Ref:	6.8 kg (1	14.98 lb)			
34. Operating ambient temperature:	0C to 40	C (32F to	104F)		
Notes:					
1. "Ref" denotes untoleranced specifications, provided for reference only.					
2. Speed, torque and current specifications are for operation with Allen Bradley drives.					
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Dr. Scott Johnson Date 0	08-26-09				

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
40. Objects loss (if a new ideal) for a tangentian and an analysis and the new formation and the instant	

42. Shaft, key (if provided), front mounting surface, and connector mating surfaces are not painted.

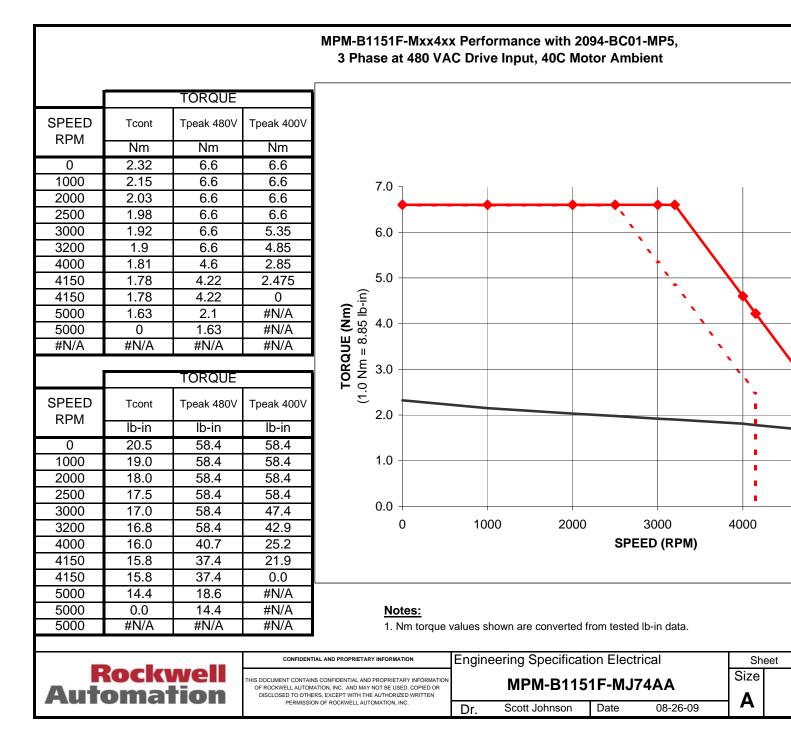
Feedback Specifications:

Automation	THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN PERMISSION OF ROCKWELL AUTOMATION, INC.	MPM-B115 Dr. Scott Johnson	Date 08-26-09	— A	10000073	869 Ve
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<u>Notes:</u> 1. "Ref" denotes untoleranced s	pecifications, provided for reference onl	у.				
 Data (byte) format: Start bi Memory storage capacity, E 			10	8 bytes		
	Encoder is slave, communication is exte	ernally initiated.	.	o 32,767 (1	5 bit)	
DATA+, DATA- signal type,	rate, asynchronous:			485, 9600	baud	
12. TS+, TS- thermostat contin	uous current, max, at 1.0 power factor:		2.5	5 Amps		
10. TS+, TS- thermostat operat	uous current, max, at 0.6 power factor:			6 Volts 6 Amps		
9. EPWR 9V inrush input curren	nt, max, when connected to Kinetix6000		25	9 ADC 0 Volts		
8. EPWK 9V continuous indut o	current.max. at 9.0 VDC:		00	mADC		
7. EPWR 9V (encoder power) i	nput voltage:) to 12.0 VI	DC	
6. EPWR 5V inrush input curren	nt, max, when connected to Kinetix6000) drive:	N//	A		
5. EPWR 5V continuous input of						
4. EPWR 5V (encoder power) i	$\frac{1}{10000000000000000000000000000000000$		2.c N//			
2. SIN, COS waveform amplitud	de, ± 10%: vith respect to ECOM ±0.3 VDC:		1.() VAC peak 5 VDC	to peak	
1. SIN, COS waveform output:				24 sinusoid		
1 SIN COS waveform output:			10	24 sinusoic	ls/rev	

. Type: Spring-set holding brake, releases when voltage applied.	
2. Holding torque, max:	4.18 Nm (37 lb-in)
 Voltage input, +15/-10%, may be applied either polarity: 	24 VDC
I. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	0.50 ADC
5. Coil resistance, +/-10%, at 25C +/- 5C:	48 Ohms
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
B. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	
in external control circuit:	110 msec
9. Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device	
in external control circuit:	20 msec
0. 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 H;

Notes:

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