

General Specifications:											
1. Motor type: 3 phase, wye wir	nding, permanent magnet rotor, totally e	enclosed, noi	n-ventilated.								
2. Motor poles:				8							
Operating Speed, max						 5000 RPM					
4. Base speed (max speed at pe	eak torque), Ref:					3000 F	RPM				
5. Operating voltage at base spe	eeu.					220 V	220 VAC RMS				
6. Continuous stall torque, max,	at max winding temperature in a 40C a	ambient:				10.7 N					
Winding temperature, max, in	n a 40C ambient:					140 degrees C					
8. Continuous stall current, max	: ached to front mounting flange for contin					30.96 Amps 0 to peak					
9. Heatsink size, aluminum, atta	sched to front mounting flange for contir	nuous torque	specifications	s:		305 x 305 x 12.7mm (12 x 12 x 0.5 inch)					
						20.5 Nm (181 lb-in)					
Peak stall current, max:						73.82 Amps 0 to peak					
12. Rated Speed (Speed at max	continous power)					3000					
13. Continuous output rating, ma	ax at rated speed:					2.50 K					
14. Continuous torque, max, at	rated speed:					7.93 N					
15. Continuous current, Ref, at a	rated speed: for direct connection to AC line):					20.5 A	mps 0	to pe	eak		
16. Operating voltage, Ref (Not	for direct connection to AC line):					240 V	AC RM	S			
17. Insulation class:						155C (Class F)					
19. Ke, +/-10%, phase to phase	at 25C +/- 5C:					52 V/kRPM 0 to peak					
20. Kt (sine), Ref, at 25C +/- 5C	:					0.43 Nm/Amp (3.81 lb-in/Amp) 0 to peak					
21. Winding resistance, +/- 10%	20. Kt (sine), Ref, at 25C +/- 5C: 21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:				0.224 ohms						
Winding inductance, Ref, ph	22. Winding inductance, Ref, phase to phase:				3.81 mH						
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:				1600 VAC RIVIS 50/60 HZ							
24. Audible noise, Ref, at 1 meter distance:				XX dBA							
25. Rotor inertia, +/- 10%:				0.000745 kg-III- (0.05970 lb-III-5ec-)							
26. Rotor balancing quality grad	le:					G-6.3					
27. Friction torque, Ref:						0.14 Nm (1.25 lb-in)					
28. Friction torque, Ref, with sha	aft seal option installed:					 0.35 Nm (3.12 lb-in)					
29. Cogging torque, Ref:						 0.11 Nm (1.0 lb-in) peak to peak					
30. Thermal resistance, Ref, wir	Cogging torque, Ref: Thermal resistance, Ref, winding to ambient:										
31. Thermal time constant, Ref, winding to ambient:				33.5 minutes							
32. Product weight, Ref:				15.3 kg (33.8 lb)							
33. Shipping weight, Ref:				18.4 kg (40.53 lb)							
34. Operating ambient temperature:			0C to 40C (32F to 104F)								
Notes:											
1. "Ref" denotes untoleranced sp	pecifications, provided for reference onl	y.									
2. Speed, torque and current spe	ecifications are for operation with Allen	Bradley drive	es.								
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35. Storage ambient temperature:	-30C to 70C (-22F to 158F)
36. Relative humidity, non-condensing:	
37. Liquiq / qust protection.	IF 00
38. Shock, max, 6 msec duration: 39. Vibration, max, 30 to 2000 Hz:	20 g peak
39. Vibration, max, 30 to 2000 Hz:	2.5 g peak
40. Shaft material:	
41. Paint, color:	Black
42. Shaft, key (if provided), front mounting surface, and connector mating surfaces are not painted.	
Facilities I. On a life attack	
Feedback Specifications: 1. SIN, COS waveform output:	1024 sinusoids/rev
1. SIN, COS waveform output:	
	2.5 VDC
3. SIN -, COS - voltage offset with respect to ECOM ±0.3 VDC: 4. EPWR 5V (encoder power) input voltage:	N/A
5. EPWR 5V continuous input current,max, at 5.0 VDC:	Ν/Δ
5. EPWR 5V continuous input current, max, at 5.0 VDC: 6. EPWR 5V inrush input current, max, when connected to Kinetix6000 drive:	N/A
	(#1111111111111111111111111111111111111
8. EPWR 9V continuous input current,max, at 9.0 VDC:	
9. EPWR 9V inrush input current, max, when connected to Kinetix6000 drive:	
10. TS+, TS- thermostat operating voltage, max:	
11. TS+, TS- thermostat continuous current, max, at 0.6 power factor:	2.5 Amps
12. TS+, TS- thermostat continuous current, max, at 1.0 power factor:	DC 196 0600 bould
13. DATA+, DATA- signal type, rate, asynchronous:	10 400, 9000 bauu
14. Communication hierarchy: Encoder is slave, communication is externally initiated.	0 to 32,767 (15 bit)
 Single turn absolute position value range: Absolute position data: Binary, value increases with CW shaft rotation viewing motor mounting face. 	0 to 32,707 (13 bit)
17. Data (byte) format: Start bit, 8 data bits, parity bit, stop bit.	
40 M	128 bytes
18. Memory storage capacity, EEPROM:	120 Dyles
19. Encoder temperature data: Binary value of encoder temperature in degrees C.	

Notes:

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Engineering Spe	ecification	Electrical
MDM	A 4 C E 4 E	NA 170 A

 MPM-A1651F-MJ72AA

 Dr.
 Scott Johnson
 Date
 08-26-09

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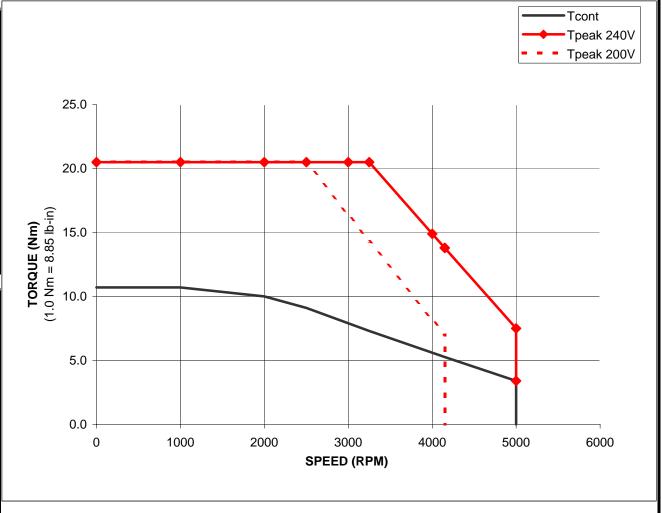
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MPM-A1651F-Mxx2xx Performance with 2094-AC32-M05, 3 Phase at 240 VAC Drive Input, 40C Motor Ambient

	TORQUE				
SPEED RPM	Tcont	Tpeak 240V	Tpeak 200V		
KEW	Nm	Nm	Nm		
0	10.7	20.5	20.5		
1000	10.7	20.5	20.5		
2000	10	20.5	20.5		
2500	9.1	20.5	20.5		
3000	7.9	20.5	16.4		
3250	7.3	20.5	14.3		
4000	5.6	14.9	8.2		
4150	5.27	13.8	7		
4150	5.27	13.8	0		
5000	3.4	7.5	#N/A		
5000	0	3.4	#N/A		
#N/A	#N/A	#N/A	#N/A		

l ,	TORQUE				
	TORQUE				
SPEED RPM	Tcont	Tpeak 240V	Tpeak 200V		
IXF IVI	lb-in	lb-in	lb-in		
0	94.7	181.4	181.4		
1000	94.7	181.4	181.4		
2000	88.5	181.4	181.4		
2500	80.5	181.4	181.4		
3000	69.9	181.4	145.2		
3250	64.6	181.4	126.6		
4000	49.6	131.9	72.6		
4150	46.6	122.1	62.0		
4150	46.6	122.1	0.0		
5000	30.1	66.4	#N/A		
5000	0.0	30.1	#N/A		
5000	#N/A	#N/A	#N/A		



Notes:

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

Rockwell Automation

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Engineering Specification Electrical					
MPM-A1651F-MJ72AA					
Dr.	Scott Johnson	Date	08-26-09		

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