

<b>General Specifications:</b>							
1. Motor type: 3 phase, wye wi	nding, permanent magnet rotor, totally	enclosed, non-ventilated.					
2. Motor poles:				8			
Operating Speed, max				4000 RPM			
4. Base speed (max speed at p	eak torque), Ref:			3000 RPM			
<ol><li>Operating voltage at base sp</li></ol>	eed:			220 VAC RN	<b>IS</b>		
6. Continuous stall torque, max	, at max winding temperature in a 40C a	ambient:		13.5 Nm (11			
<ol><li>Winding temperature, max, in</li></ol>	n a 40C ambient:			140 degrees	s C		
8. Continuous stall current, max	x: ached to front mounting flange for conti			33.54 Amps	0 to peak		
9. Heatsink size, aluminum, atta	ached to front mounting flange for conti	nuous torque specifications	S:	305 x 305 x	12.7mm (12 x 12 x 0.5 inch)		
10. Peak stall torque, max:				36 Nm (319	lb-in)		
11. Peak stall current, max:				103.23 Amp	s 0 to peak		
12. Rated Speed (Speed at max	continous power)			3500			
<ol><li>Continuous output rating, m</li></ol>	nax at rated speed:			4.03 kW (5.4			
<ol><li>14. Continuous torque, max, at</li></ol>	rated speed:			11.8 NM (10	4 lb-in)		
15. Continuous current, Ref, at	rated speed: for direct connection to AC line):			25.6 Amps (	) to peak		
<ol><li>Operating voltage, Ref (Not</li></ol>	for direct connection to AC line):			240 VAC RI	<i>I</i> IS		
17. Insulation class.				1000 (Class	s F)		
<ol><li>Housing temperature, max:</li></ol>	e at 25C +/- 5C:			125C (257F)	)		
19. Ke, +/-10%, phase to phase	e at 25C +/- 5C:			62 V/kRPM	•		
20. N. (SINE), Nei, at 200 +/- 00	<i>)</i> .				np (4.54 lb-in/Amp) 0 to peak		
21. Winding resistance, +/- 10%	6, phase to phase at 25C +/- 5C:			0.127 ohms			
22. Winding inductance, Ref, pl	hase to phase:			2.52 MH			
23. Dielectric rating of motor po	ower connections (U, v, vv), to ground for	1 second:		1000 VAC R	RMS 50/60 Hz		
<ol><li>Audible noise, Ref, at 1 me</li></ol>	ter distance:			XX dBA			
25. Rotor inertia, +/- 10%:	da.			0.007405 kg	-m² (0.06554 lb-in-sec²)		
26. Rotor balancing quality grad	de:			G-6.3			
<ol><li>27. Friction torque, Ref:</li></ol>				0.267 Nm (2	2.36lb-in)		
28. Friction torque, Ref, with sh	aft seal option installed:			0.37 Nm (3.2	27 lb-in)		
29. Cogging torque, Ref:				0.16 Nm (1.4	41 lb-in) peak to peak		
30. Thermal resistance, Ref, wi	nding to ambient:			0.37 degree	s C/watt		
31. Thermal time constant, Ref	, winding to ambient:			50 minutes			
32. Product weight, Ref:				23.2 kg (51.			
33. Shipping weight, Ref:				26.47 Kg (58	· · · · · · · · · · · · · · · · · · ·		
<ol><li>Operating ambient tempera</li></ol>	ture:			0C to 40C (3	32F to 104F)		
<u>notes:</u>							
<ol> <li>"Ref" denotes untoleranced s</li> </ol>	pecifications, provided for reference only	y.					
<ol><li>Speed, torque and current sp</li></ol>	ecifications are for operation with Allen	•					
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35. Storage ambient temperature:	-30C to 70C (-22F to 158F)
36. Relative humidity, non-condensing: 37. Liquid / dust protection:	
29 Shook may 6 mean duration:	20 a neak
39. Vibration, max, 30 to 2000 Hz:	
40. Shaft material:	
40. Shaft material: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, ± 10%:	1.0 VAC peak to peak
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:	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
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## Notes:

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## **Brake Specifications:**

1.	Type: Spring-set holding	brake, r	eleases v	when ν	oltage applied.

	. Type. Opining Sectionaling State, released When Voltage applica.	
2	. Holding torque, max:	28.3 Nm (250 lb-in)
3	3. Voltage input, +15/-10%, may be applied either polarity:	24 VDC
4	. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	1.17 ADC
5	i. Coil resistance, +/-10%, at 25C +/- 5C:	20.5 Ohms
6	6. Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:	26.7 Ohms
7	'. Release time delay (when voltage applied), Ref:	70 msec
8	B. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	•
	in external control circuit:	250 msec
ç	). Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device	
	in external control circuit:	50 msec
1	Rotational backlash, Ref, with brake engaged:	25 arc minutes
1	Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:	1200 VAC RMS 50/60 Hz

#### Notes:

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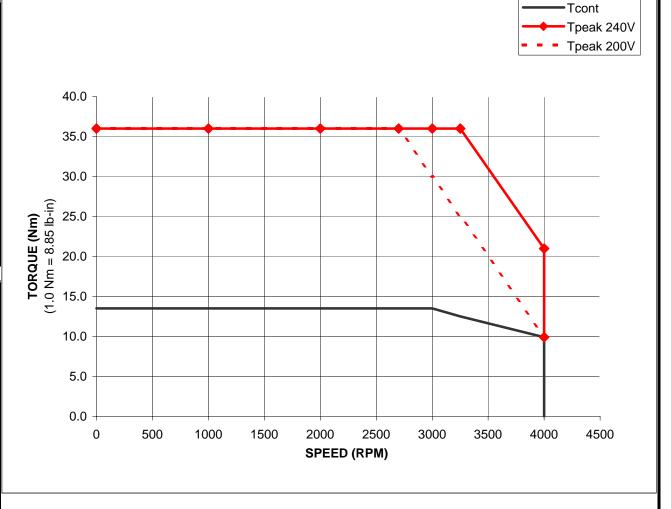
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# MPM-A1652F-Mxx4xx Performance with 2098-DSD-150, 3 Phase at 240 VAC Drive Input, 40C Motor Ambient

	TORQUE			
SPEED RPM	Tcont	Tpeak 240V	Tpeak 200V	
KEW	Nm	Nm	Nm	
0	13.5	36	36	
1000	13.5	36	36	
2000	13.5	36	36	
2700	13.5	36	36	
3000	13.5	36	30	
3250	12.5	36	25	
4000	9.9	21	10	
4000	0	9.9	9.9	
#N/A	#N/A	#N/A	#N/A	
#N/A	#N/A	#N/A	#N/A	
#N/A	#N/A	#N/A	#N/A	
#N/A	#N/A	#N/A	#N/A	

TOBOUT					
	TORQUE				
SPEED RPM	Tcont	Tpeak 240V	Tpeak 200V		
IXF IVI	lb-in	lb-in	lb-in		
0	119.5	318.6	318.6		
1000	119.5	318.6	318.6		
2000	119.5	318.6	318.6		
2700	119.5	318.6	318.6		
3000	119.5	318.6	265.5		
3250	110.6	318.6	221.3		
4000	87.6	185.9	88.5		
4000	0.0	87.6	87.6		
#N/A	#N/A	#N/A	#N/A		
#N/A	#N/A	#N/A	#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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