

General Specifications:						
1. Motor type: 3 phase, wye wi	nding, permanent magnet rotor, totally	enclosed, non-ventilated.				
2. Motor poles:			8			
3. Operating Speed, max			5200 RPM			
Base speed (max speed at peak torque), Ref:			3000 RPM			
5. Operating voltage at base speed:			440 VAC RMS			
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:			4.74 Nm (42 lb-in)			
7. Winding temperature, max, in a 40C ambient:			140 degrees C			
8. Continuous stall current, max:			6.17 Amps 0 to peak			
Continuous stall current, max: 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:	11. Peak stall current, max:			21.19 Amps 0 to peak		
12. Rated Speed (Speed at max						
13. Continuous output rating, m	nax at rated speed:			1.40 kW (1.8	8 hp)	
14. Continuous torque, max, at	c continous power) nax at rated speed: rated speed:			3.32 Nm (29 lb-in)		
15. Continuous current, Ref, at	rated speed:			4.1 Amps 0 to	o peak	
Operating voltage, Ref (Not	for direct connection to AC line):			480 VAC RMS		
17. Insulation class:	Continuous current, Ref, at rated speed: Operating voltage, Ref (Not for direct connection to AC line): Insulation class:			155C (Class F)		
Housing temperature, max:				125C (257F)		
19. Ke, +/-10%, phase to phase	e at 25C +/- 5C:			109 V/kRPM	0 to peak	
18. Housing temperature, max: 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 20. Kt (sine), Ref, at 25C +/- 5C:				0.90 Nill/Allip (7.90 lb-ll/Allip) 0 to peak		
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:			3.84 ohms			
22. Winding inductance, Ref, pl	hase to phase:			21.6 MH		
23. Dielectric rating of motor po	ower connections (U, V, VV), to ground for	1 secona:		1000 VAC KI	MS 50/60 Hz	
24. Audible noise, Ref, at 1 meter distance:				XX dBA		
25. Rotor inertia, +/- 10%:				0.00077 kg-m	n² (0.00681 lb-in-sec²)	
26. Rotor balancing quality grad	25. Rotor inertia, +/- 10%: 26. Rotor balancing quality grade:			G-6.3		
27. Friction torque, Ref:				0.09 Nm (0.80 lb-in)		
28. Friction torque, Ref, with sh	aft seal option installed:			0.38 Nm (3.4 lb-in)		
29. Cogging torque, Ref:	28. Friction torque, Ref, with shaft seal option installed: 29. Cogging torque, Ref:			0.042 Nm (0.37 lb-in) peak to peak		
30. Thermal resistance, Ref, wi	nding to ambient:			0.54 degrees C/watt		
31. Thermal time constant, Ref	, winding to ambient:			24.5 minutes		
32. Product weight, Ref:	31. Thermal time constant, Ref, winding to ambient: 32. Product weight, Ref:			5.2 kg (11.4 lb)		
33. Shipping weight, Ref:				6.8 kg (14.98	lb)	
Operating ambient tempera	ture:			0C to 40C (32	2F to 104F)	
Notes:						
 "Ref" denotes untoleranced s 	pecifications, provided for reference only	y.				
Speed, torque and current sp	ecifications are for operation with Allen					
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	. Introduction reconstitution, inc.	Dr. Scott Johnson	Date 08-26-0)9 A		01

35. Storage ambient temperature:	-30C to 70C (-22F to 158F)
36. Relative humidity, non-condensing:	
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:	***********
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:	2.2 to 2.8 VDC
4. EPWR 5V (encoder power) input voltage:	N/A
 EPWR 5V continuous input current,max, at 5.0 VDC: EPWR 5V inrush input current, max, when connected to Kinetix6000 drive: EPWR 9V (encoder power) input voltage: 	N/A
EPWR 5V Inrush Input current, max, when connected to Kinetix6000 drive: EPWR 9V (encoder power) input voltage: EPWR 9V continuous input current,max, at 9.0 VDC:	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.	
(-, -, -, -, -, -, -, -, -, -, -, -, -, -	128 bytes
18. Memory storage capacity, EEPROM:	

Notes:

1. "Ref" denotes untoleranced specifications, provided for reference only.



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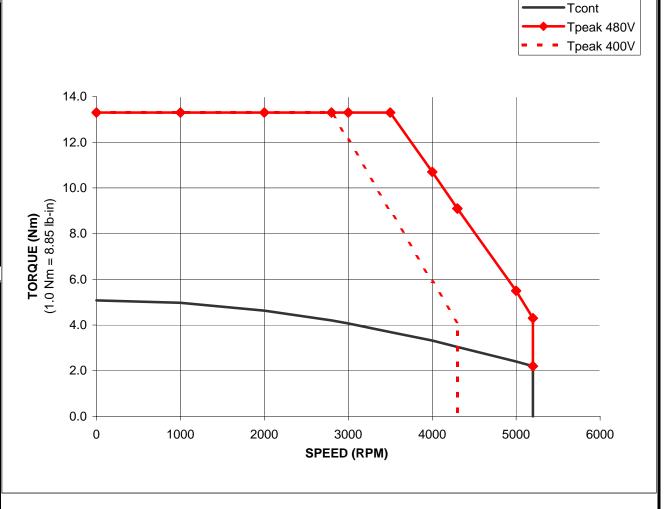
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MPM-B1152F-Sxx2xx Performance with 2094-BC01-M01, 3 Phase at 480 VAC Drive Input, 40C Motor Ambient

	TORQUE			
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V	
KFIVI	Nm	Nm	Nm	
0	5.08	13.3	13.3	
1000	4.97	13.3	13.3	
2000	4.63	13.3	13.3	
2800	4.2	13.3	13.3	
3000	4.07	13.3	12.1	
3500	3.69	13.3	9	
4000	3.32	10.7	5.9	
4300	3.04	9.1	4.13	
4300	3.04	9.1	0	
5000	2.4	5.5	#N/A	
5200	2.2	4.3	#N/A	
5200	0	2.2	#N/A	

	TORQUE			
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V	
IXF IVI	lb-in	lb-in	lb-in	
0	45.0	117.7	117.7	
1000	44.0	117.7	117.7	
2000	41.0	117.7	117.7	
2800	37.2	117.7	117.7	
3000	36.0	117.7	107.1	
3500	32.7	117.7	79.7	
4000	29.4	94.7	52.2	
4300	26.9	80.5	36.6	
4300	26.9	80.5	0.0	
5000	21.2	48.7	#N/A	
5200	19.5	38.1	#N/A	
5200	0.0	19.5	#N/A	



Notes:

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

Rockwell Automation

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