

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			3500 RPM			
4. Base speed (max speed at p	eak torque), Ref:			2150 RPM		
Operating voltage at base sp	eed:			440 VAC RM	S	
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:			6.55 Nm (58 lb-in)			
7. Winding temperature, max, in a 40C ambient:			140 degrees	С		
8. Continuous stall current, max:			6.21 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:				 19.8 Nm (175 lb-in)		
11. Peak stall current, max:				21.61 Amps	0 to peak	
12. Rated Speed (Speed at max	continous power)			3000		
13. Continuous output rating, m	 11. Peak stall current, max: 12. Rated Speed (Speed at max continous power) 13. Continuous output rating, max at rated speed: 14. Continuous torque, max, at rated speed: 15. Continuous current, Ref, at rated speed: 			1.40 kW (1.88 hp)		
14. Continuous torque, max, at	rated speed:			4.4 Nm (39 lb-in)		
15. Continuous current, Ref, at	rated speed:			3.8 Amps 0 to peak		
16. Operating voltage, Ref (Not	rated speed: for direct connection to AC line):			480 VAC RMS		
17. Insulation class:				155C (Class F)		
Housing temperature, max:				125C (257F)		
19. Ke, +/-10%, phase to phase	18. Housing temperature, max: 19. Ke, +/-10%, phase to phase at 25C +/- 5C:			154 V/kRPM 0 to peak		
20. Rt (Sirie), Rei, at 250 +/- 50.			1.27 Nill/Allip (11.27 lb-ll/Allip) o to peak			
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:			4.62 ohms			
22. Winding inductance, Ref, phase to phase:			28.5 MH			
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:				1000 VAC KI	MS 50/60 Hz	
24. Audible noise, Ref, at 1 meter distance:			XX dBA			
25. Rotor inertia, +/- 10%:				0.00089 kg-n	n² (0.00788 lb-in-sec²)	
26. Rotor balancing quality grade:				G-6.3		
27. Friction torque, Ref:			0.118 Nm (1.	04 lb-in)		
28. Friction torque, Ref, with shaft seal option installed:			0.38 Nm (3.4 lb-in)			
29. Cogging torque, Ref:			0.045 Nm (0.40 lb-in) peak to peak			
30. Thermal resistance, Ref, winding to ambient:				0.60 degrees C/watt		
31. Thermal time constant, Ref, winding to ambient:				28 minutes		
32. Product weight, Ref:				8.1 kg (17.8 l	b)	
33. Shipping weight, Ref:					ib)	
34. Operating ambient temperature:			0C to 40C (3	2F to 104F)		
Notes:						
 "Ref" denotes untoleranced s 	pecifications, provided for reference onl	y.				
Speed, torque and current sp	ecifications are for operation with Allen					
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	200 / 700 / 205 / 775
35. Storage ambient temperature:	-30C to 70C (-22F to 158F)
36. Relative humidity, non-condensing:	5% to 95%
77. Elquid 7 dust protection.	
88. Shock, max, 6 msec duration:	
39. Vibration, max, 30 to 2000 Hz:	2.5 g peak
IO. Shaft material:	Steel, 1144
Final Paint, color:	Black
12. Shaft, key (if provided), front mounting surface, and connector mating surfaces are not painted.	
Feedback Specifications:	
. SIN, COS waveform output:	
2. SIN, COS waveform amplitude, ± 10%:	1.0 VAC peak to peak
2. SIN, COS waveform amplitude, ± 10%: 3. SIN -, COS - voltage offset with respect to ECOM ±0.3 VDC:	2.2 to 2.8 VDC
FPWR 5V (Encoder nowed Indul Vollage	IN/A
b. EPWR 5V continuous input current,max, at 5.0 VDC:	N/A
S. EPWR 5V inrush input current, max, when connected to Kinetix6000 drive:	
7. EPWR 9V (encoder power) input voltage:	7.0 to 12.0 VDC
3. EPWR 9V continuous input current,max, at 9.0 VDC:	80 mADC
EPWR 9V inrush input current, max, when connected to Kinetix6000 drive:	
10. TS+, TS- thermostat operating voltage, max:	250 Volts
1. TS+, TS- thermostat continuous current, max, at 0.6 power factor:	1.6 Amps
2. TS+, TS- thermostat continuous current, max, at 1.0 power factor:	2.5 Amps
3. DATA+, DATA- signal type, rate, asynchronous:	RS 485, 9600 baud
4. Communication hierarchy: Encoder is slave, communication is externally initiated.	
5. Single turn absolute position value range:	0 to 32,767 (15 bit)
or origination appearance position rainger	
6. Absolute position data: Binary, value increases with CW shaft rotation viewing motor mounting face.	
6. Absolute position data: Binary, value increases with CW shaft rotation viewing motor mounting face.	
6. 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

Notes:

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Ver **01**

Brake Specifications:

1	Type: Spring-set holding	hrake	releases	when	voltage applied

Typer opining det neraning branes, releaded intent remage applical	
2. Holding torque, max:	4.18 Nm (37 lb-in)
3. Voltage input, +15/-10%, may be applied either polarity:	24 VDC
4. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	0.50 ADC
5. Coil resistance, +/-10%, at 25C +/- 5C:	48 Ohms
6. Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:	53 Ohms
	50 msec
8. 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
10. Rotational backlash, Ref, with brake engaged:	45 arc minutes
11. Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:	1200 VAC RMS 50/60 Hz
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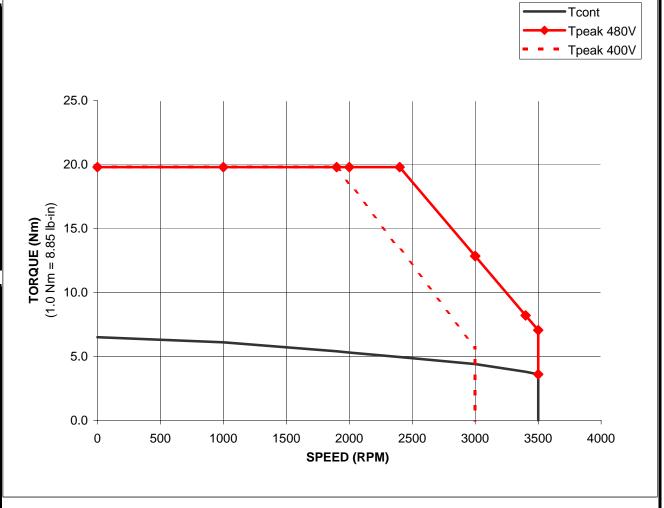
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Ver **01**

MPM-B1153E-Sxx4xx Performance with 2094-BC01-M01, 3 Phase at 480 VAC Drive Input, 40C Motor Ambient

	TORQUE		
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V
KEW	Nm	Nm	Nm
0	6.5	19.8	19.8
1000	6.1	19.8	19.8
1900	5.4	19.8	19.8
2000	5.3	19.8	18.52
2400	4.95	19.8	13.4
3000	4.4	12.84	5.72
3000	4.4	12.84	0
3400	3.8	8.2	#N/A
3500	3.6	7.05	#N/A
3500	0	3.6	#N/A
#N/A	0	4.63	#N/A
#N/A	#N/A	#N/A	#N/A

	TORQUE				
SPEED RPM	Tcont	Tpeak 480V	Tpeak 400V		
IXF IVI	lb-in	lb-in	lb-in		
0	57.5	175.2	175.2		
1000	54.0	175.2	175.2		
1900	47.8	175.2	175.2		
2000	46.9	175.2	163.9		
2400	43.8	175.2	118.6		
3000	38.9	113.6	50.6		
3000	38.9	113.6	0.0		
3400	33.6	72.6	#N/A		
3500	31.9	62.4	#N/A		
3500	0.0	31.9	#N/A		
#N/A	0.0	41.0	#N/A		
#N/A	#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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