

General Specifications:											
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally	enclosed	l, non-ventilated.									
2. Motor poles:				8							
3. Operating Speed, max				4000	RPM						
 Base speed (max speed at peak torque), Ref: Operating voltage at base speed: 				2400	RPM						
\mathbf{J} . Operating voltage at base speed.				110 1	AC RM	S					
6. Continuous stall torque, max, at max winding temperature in a 40C	ambient:			10.2 N	Vm (90	lb-in)					
7. Winding temperature, max, in a 40C ambient:				140 d	egrees	С					
8. Continuous stall current, max:				10.75	Amps () to pea	ak				
 8. Continuous stall current, max: 9. Heatsink size, aluminum, attached to front mounting flange for conti 	nuous to	rque specification	S:	305 x	305 x 1	2.7mm	n (12 x 12 x	0.5 inch)			
10. Peak stall torque, max:				27.1 N	Vm (240) lb-in)					
11. Peak stall current, max:				34.25	Amps () to pea	ak				
12. Rated Speed (Speed at max continous power)				3500							
13. Continuous output rating, max at rated speed:				2.20 k	W (2.9	5 hp)					
14. Commuous lorque, max, al faleu speeu.				0.0 14	m (53 lb	o-in)					
15. Continuous current, Ref, at rated speed:16. Operating voltage, Ref (Not for direct connection to AC line):				5.8 Ar	mps 0 to	o peak					
16. Operating voltage, Ref (Not for direct connection to AC line):				480 V	AC RM	S					
17. Insulation class:					(Class	F)					
18. Housing temperature, max:				125C	(257F)						
 18. Housing temperature, max: 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 20. K(t (sing)) Bat at 25C +/- 5C: 				138 V	/kRPM	0 to pe	ak				
20. Kt (Sine), Ref. at 250 +/- 50.				1.141	lm/Amp	o (10.10) lb-in/Amp) 0 to peak			
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:				1.957	ohms						
22. Winding inductance, Ref, phase to phase:				18.64	mΗ						
23. Dielectric rating of motor power connections (U,V,W), to ground to	r 1 secor	nd:		1800	VAC R	MS 50/6	60 Hz				
24. Audible noise, Ref, at 1 meter distance:				XX dE	3A						
25. Rotor inertia, +/- 10%:				0.001	223 kg-	m² (0.0	1082 lb-in-	sec²)			
26. Rotor balancing quality grade:				G-6.3							
27. Friction torque, Ref:					Vm (1.3	5 lb-in)					
					Vm (1.3	lb-in)					
29. Cogging torque, Ref:				0.060	Nm (0.	53 lb-in	n) peak to p	eak			
30. Thermal resistance, Ref, winding to ambient:				0.49 c	legrees	C/watt					
31. Thermal time constant, Ref, winding to ambient:				30.5 r	ninutes						
32. Product weight, Ref:						11.7 kg (25.7 lb)					
33. Shipping weight, Ref:	33. Shipping weight, Ref: 1				12.94 Kg (20.5 ID)						
34. Operating ambient temperature:				0C to	40C (32	2F to 1	04F)				
Notes:											
1. "Ref" denotes untoleranced specifications, provided for reference on	ly.										
2. Speed, torque and current specifications are for operation with Allen											
CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specification Electrical				She	et	2	of	5 Ver		
			4E-MJ74AA		Size		400007	00072060			
Automation Permission of rockwell automation, INC. and May Not Be Used, COPIED or Disclosed To others, Except with the Authorized WRITEN PERMISSION OF ROCKWELL AUTOMATION, INC.	Dr.	Scott Johnson	Date 08-2	6-09	Α		1000007	2009	01		
	וט.	0000 001113011	5410 00-2								

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.

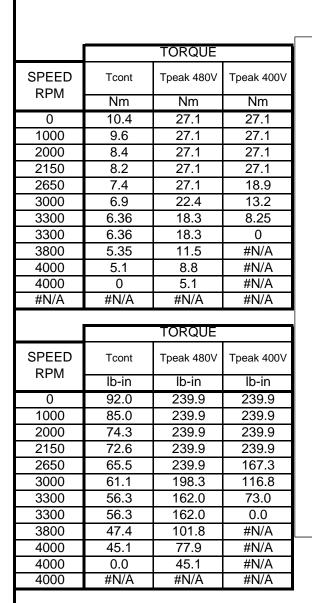
Feedback Specifications:

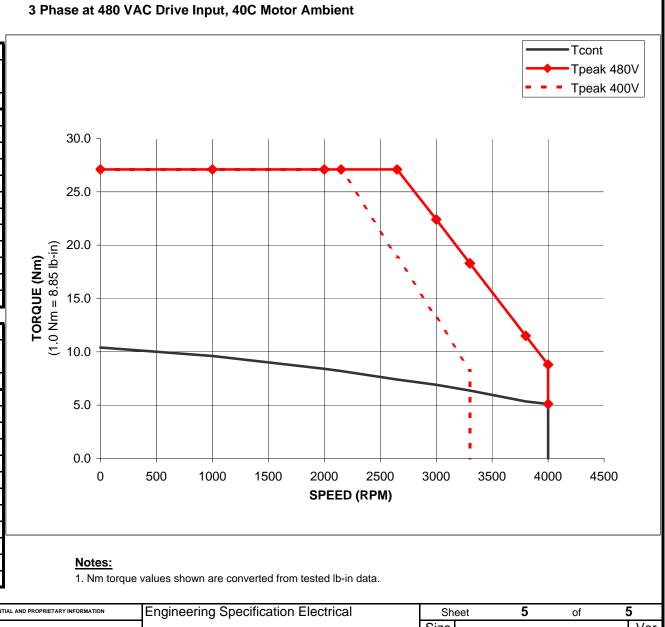
Automation	THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF ROCKWELL AUTOMATION, INC. AND MAY NOT BE USED, COPIED OR DISCLOSED TO OTHERS, EXCEPT WITH THE AUTHORIZED WRITTEN PERMISSION OF ROCKWELL AUTOMATION, INC.	MPM-B130 Dr. Scott Johnson	DATE-MJ74AA	Size	1000007386	9 Ver 01
Rockwell	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specifica	tion Electrical	She	et 3 of	
<u>Notes:</u> 1. "Ref" denotes untoleranced sp	pecifications, provided for reference only	у.				
 Data (byte) format: Start bit, Memory storage capacity, El 	, 8 data bits, parity bit, stop bit.		10	8 bytes		
-	Encoder is slave, communication is extended in value range: ary, value increases with CW shaft rotated in the state of the	•	01	to 32,767 (1	5 bit)	
13. DATA+, DATA- signal type, i	rate, asynchronous:			S 485, 9600	baud	
12. TS+, TS- thermostat continu	ous current, max, at 1.0 power factor:		2.3	5 Amps		
11. TS+, TS- thermostat continu	ous current, max, at 0.6 power factor:		1.0	6 Amps		
10. TS+, TS- thermostat operation			25	50 Volts		
8. EPWR 9V continuous input cu	t, max, when connected to Kinetix6000	drive:	3 (9 ADC		
7. EPWR 9V (encoder power) in	put voltage:		۱.۱ ۵۰	0 to 12.0 VI) mADC		
6. EPWR 5V inrush input curren	, ,					
5. EPWR 5V continuous input cu	urrent,max, at 5.0 VDC:		N/	A		
4. EPVVR 5V (encoder power) in	iput voitage:		IN/			
3. SIN -, COS - voltage offset wi	e, $\pm 10\%$: th respect to ECOM ± 0.3 VDC:		2.5	5 VDC		
2. SIN, COS waveform amplitud	100/			0 VAC peak	to peak	
1. SIN, COS waveform output:			10	24 sinusoid	s/rev	

. Type: Spring-set holding brake, releases when voltage applied.	
2. Holding torque, max:	10.2 Nm (90 lb-in)
 Voltage input, +15/-10%, may be applied either polarity: 	24 VDC
4. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	0.64 ADC
5. Coil resistance, +/-10%, at 25C +/- 5C:	38 Ohms
5. Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:	42 Ohms
7. Release time delay (when voltage applied), Ref:	110 msec
3. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	
in external control circuit:	160 msec
9. Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device	
in external control circuit:	25 msec
0. Rotational backlash, Ref, with brake engaged:	48 arc minutes
1. Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:	1200 VAC RMS 50/60 Hz

Notes:

1. "Ref" denotes untoleranced specifications, provided for reference only. Engineering Specification Electrical CONFIDENTIAL AND PROPRIETARY INFORMATION 4 5 Sheet of **Rockwell** Automation Size Ver THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATIC 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-B1304E-MJ74AA 10000073869 01 Α Dr. Scott Johnson Date 08-26-09





	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engine	ering Specificati	on Elect	rical	She	et	5	of	5
Rockwell 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		MPM-B130	4E-MJ7	74AA	Size	10000073869	3869	Ver	
	PERMISSION OF ROCKWELL AUTOMATION, INC.	Dr.	Scott Johnson	Date	08-26-09	Α				UT

MPM-B1304E-Mxx4xx Performance with 2094-BC02-M02,