

General Specifications:							
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.							
2. Motor poles:	8						
3. Operating Speed, max	7000 R	PM					
<ol> <li>Base speed (max speed at peak torque), Ref:</li> <li>Operating voltage at base speed:</li> </ol>	5900 R	PM					
J. Operaling vollage al base speed.	110 17	C RMS	S				
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	4.74 Nr	m (42 l	b-in)				
7. Winding temperature, max, in a 40C ambient:	140 de	grees (	С				
8. Continuous stall current, max:	11.02 A	Amps (	) to pea	ak			
<ol> <li>8. Continuous stall current, max:</li> <li>9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications:</li> </ol>	305 x 3	805 x 1	2.7mm	n (12 x 1	12 x 0.	5 inch)	
10. Peak stall torque, max:	13.5 Nr	m (119	lb-in)				
11. Peak stall current, max:	37.87 A	Amps (	) to pea	ak			
12. Rated Speed (Speed at max continous power)	4000						
13. Continuous output rating, max at rated speed:	1.40 kV	V (1.88	3 hp)				
14. Continuous torque, max, at rated speed:	3.32 Nr	m (29 l	b-in)				
<ul> <li>15. Continuous current, Ref, at rated speed:</li> <li>16. Operating voltage, Ref (Not for direct connection to AC line):</li> <li>17. Insulation cleaner</li> </ul>	7.3 Am	ps 0 to	o peak				
16. Operating voltage, Ref (Not for direct connection to AC line):	480 VA	C RMS	S				
17. Insulation class:	155C (0	Class F	F)				
18. Housing temperature, max:	125C (2	257F)					
<ol> <li>Housing temperature, max:</li> <li>Ke, +/-10%, phase to phase at 25C +/- 5C:</li> <li>Kt (aina), Bot, et 25C +/- 5C:</li> </ol>	61 V/kF	RPM 0	to pea	ık			
20. Kt (sine), Ref, at 25C +/- 5C:	0.504 N	/m/Am	p (4.4	6 lb-in/A	(mp) 0	to peak	
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	1.21 oh	nms					
22. Winding inductance, Ref, phase to phase:	6.75 m	Н					
23. Dielectric rating of motor power connections (U,V,VV), to ground for 1 second:	1600 V	AC RN	/IS 50/	60 Hz			
24. Audible noise, Ref, at 1 meter distance:	XX dBA	4					
25. Rotor inertia, +/- 10%:	0.0007	7 kg-m	<sup>2</sup> (0.00	)681 lb-i	in-sec <sup>2</sup>	2)	
26. Rotor balancing quality grade:	G-6.3						
27. Friction torque, Ref:		m (0.80	) lb-in)				
28. Friction torque, Ref, with shaft seal option installed:		m (3.4	lb-in)				
29. Cogging torque, Ref:		Vm (0.3	37 lb-ir	n) peak t	to peal	k	
30. Thermal resistance, Ref, winding to ambient:	0.54 de	egrees	C/wat	t			
31. Thermal time constant, Ref, winding to ambient:	24.5 m	inutes					
32. Product weight, Ref:	6.9 kg (	(15.2 lk	c)				
33. Shipping weight, Ref.	8.13 kg	ı (17.9	lb)				
34. Operating ambient temperature:	0C to 4	OC (32	2F to 1	04F)			
Notes:							
1. "Ref" denotes untoleranced specifications, provided for reference only.							
2. Speed, torque and current specifications are for operation with Allen Bradley drives.							
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Dr. Scott Johnson Date 08-26-	-09	-					

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-B115 Dr. Scott Johnson	<b>2T-MJ74AA</b> Date 08-26-09	Size	10000073	3869	Ver 01	
Rockwell	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specificat	ion Electrical	She	eet <b>3</b>	of	5	
<u>Notes:</u> 1. "Ref" denotes untoleranced s	pecifications, provided for reference onl	у.						
<ol> <li>Data (byte) format: Start bi</li> <li>Memory storage capacity, E</li> </ol>	t, 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 rotation	•	0 t	o 32,767 (′	15 bit)			
13. DATA+, DATA- signal type,	rate, asynchronous:			8 485, 9600	) baud			
12. TS+, TS- thermostat continu	<ul> <li>11. TS+, TS- thermostat continuous current, max, at 0.6 power factor:</li> <li>12. TS+, TS- thermostat continuous current, max, at 1.0 power factor:</li> </ul>			.5 Amps				
11. TS+, TS- thermostat continu	uous current, max, at 0.6 power factor:		1.6	1.6 Amps				
<ol><li>TS+, TS- thermostat operat</li></ol>	ing voltage, max:		25	0 Volts				
9. EPWR 9V inrush input curre	nt, max, when connected to Kinetix6000	drive:	3.9	ADC				
8. EPWR 9V (encoder power)	nput voltage:		، <i>۲</i> ۸۱	mADC				
6. EPWR 5V Inrush Input currel				ч ) to 12.0 VI				
5. EPWR 5V continuous input o	current,max, at 5.0 VDC:	drive:	N//	4				
4. EPWR 5V (encoder power)	nput voitage:		IN//	-				
3. SIN -, COS - voltage offset w	de, ± 10%: vith respect to ECOM ±0.3 VDC:		2.5	5 VDC				
2. SIN, COS waveform amplitue	de, ± 10%:		1.(	) VAC peal	k to peak			
<ol> <li>SIN, COS waveform output:</li> </ol>				24 sinusoio				

. Type: Spring-set holding brake, releases when voltage applied.	
2. Holding torque, max:	4.18 Nm (37 lb-in)
<ol> <li>Voltage input, +15/-10%, may be applied either polarity:</li> </ol>	24 VDC
I. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	0.50 ADC
5. Coil resistance, +/-10%, at 25C +/- 5C:	48 Ohms
<ol><li>Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:</li></ol>	53 Ohms
7. Release time delay (when voltage applied), Ref:	50 msec
B. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	
in external control circuit:	110 msec
<ol><li>Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device</li></ol>	
in external control circuit:	20 msec
0. Rotational backlash, Ref, with brake engaged:	45 arc minutes
1. Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:	1200 VAC RMS 50/60 H;

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-B1152T-MJ74AA 10000073869 01 Α Dr. Scott Johnson Date 08-26-09

