

General Specifications:						
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.						
2. Motor poles:	8					
3. Operating Speed, max	3500 RPM					
 Base speed (max speed at peak torque), Ref: Operating voltage at base speed: 	1700 RPM					
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	10.7 Nm (95 lb-in)					
7. Winding temperature, max, in a 40C ambient:	140 degrees C					
8. Continuous stall current, max:	10.21 Amps 0 to peak					
8. Continuous stall current, max:9. 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:	23.2 Nm (205 lb-in)					
11. Peak stall current, max:	29.29 Amps 0 to peak					
12. Rated Speed (Speed at max continous power)	3000					
13. Continuous output rating, max at rated speed:	2.50 KW (3.35 NP)					
14. Continuous torque, max, at rated speed:	7.93 Nm (70 lb-in)					
 15. Continuous current, Ref, at rated speed: 16. Operating voltage, Ref (Not for direct connection to AC line): 	6.7 Amps 0 to peak					
16. Operating voltage, Ref (Not for direct connection to AC line):	480 VAC RMS					
17. Insulation class:						
	125C (257F)					
19. Ke, +/-10%, phase to phase at 25C +/- 5C:	160 V/kRPM 0 to peak					
20. Kt (sine), Ref, at 25C +/- 5C:	1.32 Nm/Amp (11.71 lb-in/Amp) 0 to peak					
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	1.911 011115					
22. Winding inductance, Ref, phase to phase:	34.28 mH					
23. Dielectric rating of motor power connections (U,V,VV), to ground for 1 second:	1000 VAC KIVIS 30/00 HZ					
24. Audible noise, Ref, at 1 meter distance:	XX dBA					
25. Rotor inertia, +/- 10%:	0.006745 kg-m ² (0.05969 lb-in-sec ²)					
26. Rotor balancing quality grade:	G-6.3					
27. Friction torque, Ref:	0.14 Nm (1.25 lb-in)					
28. Friction torque, Ref, with shaft seal option installed:	0.35 Nm (3.12 lb-in)					
29. Cogging torque, Ref:	0.11 Nm (1.0 lb-in) peak to peak					
30. Thermal resistance, Ref, winding to ambient:	0.45 degrees C/watt					
31. Thermal time constant, Ref, winding to ambient:	33.5 minutes					
32. Product weight, Ref:	17.9 Kg (39.5 lb)					
33. Shipping weight, Ref.	20.93 kg (40.1 lb)					
34. Operating ambient temperature:	0C to 40C (32F to 104F)					
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-						

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
42. Shaft, key (if provided), front mounting surface, and connector mating surfaces	s are not painted.

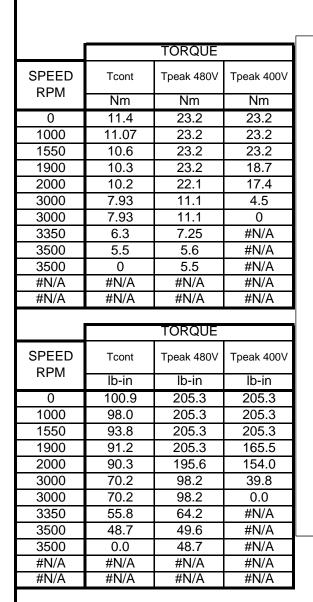
Feedback Specifications:

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Rockwell	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specificati	on Electrical	Sheet	3	of	5
<u>Notes:</u> 1. "Ref" denotes untoleranced sp	pecifications, provided for reference only	у.					
 Data (byte) format: Start bit Memory storage capacity, E 		~	10	8 bytes			
15. Single turn absolute position	Encoder is slave, communication is extension	ernally initiated.	0 t	o 32,767 (15	bit)		
13. DATA+, DATA- signal type,				5 485, 9600 b	aud		
12. TS+, TS- thermostat continu	ious current, max, at 1.0 power factor:		2.5	5 Amps			
11. TS+, TS- thermostat operation	ious current, max, at 0.6 power factor:			5 Amps			
 EPWR 9V Inrush input curren TS+, TS- thermostat operati 	it, max, when connected to Kinetix6000		25	9 ADC 0 Volts			
EPWR 9V continuous input c	urrent,max, at 9.0 VDC:		80	MADC ADC			
7. EPWR 9V (encoder power) in	iput voltage:		7.0) to 12.0 VDC	;		
6. EPWR 5V inrush input curren	at, max, when connected to Kinetix6000	drive:	N/.				
5. EPWR 5V continuous input c	urrent.max. at 5.0 VDC:		N/.	A			
4. EPWR 5V (encoder power) in	nput voltage:		 N/				
 SIN, COS waveform amplitud SIN - COS - voltage offset with 	ie, $\pm 10\%$: ith respect to ECOM ± 0.3 VDC:		2.2	2 to 2.8 VDC	ореак		
			A (24 sinusoids/) VAC peak to			
1. SIN, COS waveform output:			10	24 sinusoids/	/rev		

 Type: Spring-set holding brake, releases when voltage applied. 	
2. Holding torque, max:	28.3 Nm (250 lb-in)
 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. Coil resistance, +/-10%, at 25C +/- 5C:	20.5 Ohms
5. 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
3. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	
in external control circuit:	250 msec
9. Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device	
in external control circuit:	50 msec
 Rotational backlash, Ref, with brake engaged: 	25 arc minutes
 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-B1651C-SJ74AA 10000073869 Α 01 Dr. Scott Johnson Date 08-26-09





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