

General Specifications:	
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.	
2. Motor poles:	8
3. Operating Speed, max	2500 RPM
<ol> <li>Base speed (max speed at peak torque), Ref:</li> <li>Operating voltage at base speed:</li> </ol>	1600 RPM
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	16 Nm (142 lb-in)
7. Winding temperature, max, in a 40C ambient:	140 degrees C
8. Continuous stall current, max:	11.51 Amps 0 to peak
<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 305 x 12.7mm (12 x 12 x 0.5 inch)
10. Peak stall torque, max:	40 Nm (354 lb-in)
11. Peak stall current, max:	33.63 Amps 0 to peak
12. Rated Speed (Speed at max continous power)	2500
T3. Commuous oulput raing, max at raieu speeu.	3.00 KW (3.03 Hp)
14. Continuous torque, max, at rateu speeu.	13.3 Nill (137 Ib-Ill)
<ul> <li>15. Continuous current, Ref, at rated speed:</li> <li>16. Operating voltage, Ref (Not for direct connection to AC line):</li> </ul>	9.9 Amps 0 to peak
16. Operating voltage, Ref (Not for direct connection to AC line):	480 VAC RMS
17. Insulation class:	155C (Class F)
18. Housing temperature, max:	125C (257F)
<ol> <li>Housing temperature, max:</li> <li>Ke, +/-10%, phase to phase at 25C +/- 5C:</li> <li>Ke (cipa) Ref. at 25C +/- 5C:</li> </ol>	210 V/kRPM 0 to peak
20. Kt (sine), Ref, at 25C +/- 5C:	1.74 Nm/Amp (15.37 lb-in/Amp) 0 to peak
21. Winding resistance, +/- 10%, phase to phase at 250 +/- 50.	1.40 011115
22. Winding inductance, Ref, phase to phase:	28.04 mH
23. Dielectric rating of motor power connections (U,V,VV), to ground for 1 second:	1000 VAC RIVIS 50/00 HZ
24. Audible noise, Ref, at 1 meter distance:	XX dBA
25. Rotor inertia, +/- 10%:	0.007405 kg-m² (0.06554 lb-lh-sec²)
26. Rotor balancing quality grade:	G-6.3
	0.207 NITI (2.30 ID-ITI)
28. Friction torque, Ref, with shaft seal option installed:	0.37 Nm (3.27 lb-in)
29. Cogging torque, Ref:	0.16 Nm (1.41 lb-in) peak to peak
30. Thermal resistance, Ref, winding to ambient:	0.37 degrees C/watt
31. Thermal time constant, Ref, winding to ambient:	50 minutes
32. Product weight, Ref:	23.2 Kg (51.1 lb)
33. Shipping weight, Rei.	20.47 Kg (30.3 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.	
CONFIDENTIAL AND PROPRIETARY INFORMATION Engineering Specification Electrical	Sheet 2 of 5
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Dr. Scott Johnson Date 08-26-	03

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:

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Rockwell	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specificati	on 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>			100	bytes			
15. Single turn absolute positio				32,767 (*	15 bit)		
13. DATA+, DATA- signal type,	rate, asynchronous:			485, 9600	) baud		
12. TS+, TS- thermostat contin	uous current, max, at 1.0 power factor:		2.5	Amps			
11. TS+, TS- thermostat contin	uous current, max, at 0.6 power factor:		1.6	Amps			
<ol><li>TS+. TS- thermostat operat</li></ol>	ing voltage, max:		250	Volts			
9. EPWR 9V inrush input curre	nt, max, when connected to Kinetix6000	drive:	3.9	ADC			
8. EPWR 9V continuous input of	nput voltage:		7.0 80 r	nADC			
<ol> <li>EPWR 5V Inrush Input current</li> <li>EPWR 6V (opcoder power) in</li> </ol>				to 12.0 VI			
5. EPWR 5V continuous input o	current, max, at 5.0 VDC:	drive:	N/A				
4. EPWR 5V (encoder power) I	nput voitage:		IN/A				
3. SIN -, COS - voltage offset w	de, ± 10%: vith respect to ECOM ±0.3 VDC:		2.5	VDC			
2. SIN, COS waveform amplitud	de, ± 10%:		1.0	VAC peal	k to peak		
1. SIN, COS waveform output:			-	4 sinusoio			

<ol> <li>Type: Spring-set holding brake, releases when voltage applied.</li> </ol>	
2. Holding torque, max:	28.3 Nm (250 lb-in)
<ol> <li>Voltage input, +15/-10%, may be applied either polarity:</li> </ol>	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
<ol> <li>Rotational backlash, Ref, with brake engaged:</li> </ol>	25 arc minutes
<ol> <li>Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:</li> </ol>	1200 VAC RMS 50/60 H

Notes:

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