

General Specifications:						
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.						
2. Motor poles:	8					
3. Operating Speed, max	3000 RPM					
<ol> <li>Base speed (max speed at peak torque), Ref:</li> <li>Operating voltage at base speed:</li> </ol>	2200 RPM					
J. Operaling vollage al base speed.						
<ol><li>Continuous stall torque, max, at max winding temperature in a 40C ambient:</li></ol>	48 Nm (425 lb-in)					
7. Winding temperature, max, in a 40C ambient:	140 degrees C					
8. Continuous stall current, max:	39.63 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 25.4mm (12 x 12 x 1.0 inch)					
10. Peak stall torque, max:	101.1 Nm (895 lb-in)					
11. Peak stall current, max:	98.62 Amps 0 to peak					
12. Rated Speed (Speed at max continous power)	2000					
13. Continuous output rating, max at rated speed:	7.20 KVV (9.05 NP)					
14. Continuous torque, max, at rated speed.	54.5 Nill (505 lb-ll)					
<ul> <li>15. Continuous current, Ref, at rated speed:</li> <li>16. Operating voltage, Ref (Not for direct connection to AC line):</li> </ul>	27.3 Amps 0 to peak					
16. Operating voltage, Ref (Not for direct connection to AC line):	480 VAC RMS					
17. Insulation class:						
18. Housing temperature, max:	125C (257F)					
<ol> <li>Housing temperature, max:</li> <li>Ke, +/-10%, phase to phase at 25C +/- 5C:</li> <li>Ké (aira). Bet at 25C +/- 5C:</li> </ol>	170 V/kRPM 0 to peak					
20. Kt (sine), Rei, at 250 +/- 50:	1.41 NIII/AIIIP (12.44 ID-III/AIIIP) 0 to peak					
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	0.217 011115					
22. Winding inductance, Ref, phase to phase:	7.08 mH					
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:	1800 VAC RIVIS 50/60 HZ					
24. Audible noise, Ref, at 1 meter distance:	XX dBA					
25. Rotor inertia, +/- 10%:	0.02254 kg-m² (0.19949 lb-in-sec²)					
26. Rotor balancing quality grade:	G-0.3					
27. Friction torque, Ref:						
28. Friction torque, Ref, with shaft seal option installed:	1.0 Nm (8.85 lb-in)					
29. Cogging torque, Ref:	0.46 Nm (4.13 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:	83 minutes					
32. Product weight, Ref:	52.6 Kg (115.8 lb)					
33. Shipping weight, Rei:	57.16 Kg (125.9 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 08-26-0						

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 are not painted.

## Feedback Specifications:

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Rockwell	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specificat	ion Electrical	She	et <b>3</b>	of	5
<u>Notes:</u> 1. "Ref" denotes untoleranced s	pecifications, provided for reference only	у.					
<ol> <li>Data (byte) format: Start bi</li> <li>Memory storage capacity, E</li> </ol>			120	3 bytes			
	Encoder is slave, communication is exte	ernally initiated.		5 32,767 (1	5 bit)		
<ol> <li>DATA+, DATA- signal type,</li> </ol>	rate, asynchronous:			485, 9600	baud		
12. TS+, TS- thermostat continu	uous current, max, at 1.0 power factor:		2.5	Amps			
10. TS+, TS- thermostat operat	uous current, max, at 0.6 power factor:			Amps			
9. EPWR 9V inrush input curren	nt, max, when connected to Kinetix6000		250	ADC ) Volts			
8. EPVVR 9V CONTINUOUS INDUT C	current.max. at 9.0 VDC:		00	mADC			
7. EPWR 9V (encoder power) i	nput voltage:		7.0	to 12.0 VD	C		
6. EPWR 5V inrush input curren	nt, max, when connected to Kinetix6000	drive:	N/A	4			
5. EPWR 5V continuous input of	current.max. at 5.0 VDC:		N/A				
4. EPWR 5V (encoder power) i	nul respect to ECOM $\pm 0.3$ vDC.		2.5 N/A				
2. SIN, COS waveform amplitud	de, ± 10%: vith respect to ECOM ±0.3 VDC:		1.0 2.5	VAC peak	то реак		
1. SIN, COS waveform output:				24 sinusoid			
			4.00		alroy		

Brake Specifications: 1. Type: Spring-set holding brake, releases when voltage applied.	
2. Holding torque, max:	70 Nm (619 lb-in)
3. Voltage input, +15/-10%, may be applied either polarity:	24 VDC
4. Current input, +/- 10%, at 24 VDC, at 25C +/- 5C:	2.05 ADC
5. Coil resistance, +/-10%, at 25C +/- 5C:	11.76 Ohms
6. Coil resistance, +/-10%, with motor operating at max continuous stall torque rating in a 40C ambient:	16.46 Ohms
7. Release time delay (when voltage applied), Ref:	200 msec
8. Engage time delay, (when voltage removed), Ref, with diode used as arc suppression device	
in external control circuit:	900 msec
9. Engage time delay, (when voltage removed), Ref, with MOV used as arc suppression device	
in external control circuit:	120 msec
10. Rotational backlash, Ref, with brake engaged:	25 arc minutes
11. Dielectric rating of brake connections (MBRK+, MBRK-) to ground for 1 second:	1200 VAC RMS 50/60 Hz

Notes:

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	CONFIDENTIAL AND PROPRIETARY INFORMATION	Engineering Specification Electrical				Sheet		4	of	5
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