

General Specifications:						
1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.						
2. Motor poles:	8					
3. Operating Speed, max	5000 RPM					
<ol> <li>4. Base speed (max speed at peak torque), Ref:</li> <li>5. Operating voltage at base speed:</li> </ol>	4300 RPM					
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	30 Nm (266 lb-in)					
7. Winding temperature, max, in a 40C ambient:	140 degrees C					
8. Continuous stall current, max:	44.58 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:	50 Nm (443 lb-in)					
11. Peak stall current, max:	76.37 Amps 0 to peak					
12. Rated Speed (Speed at max continous power)	2500					
13. Continuous output rating, max at rated speed:	5.90 kW (7.91 hp)					
ra. Continuous torque, max, at rated speed.						
<ul> <li>15. Continuous current, Ref, at rated speed:</li> <li>16. Operating voltage, Ref (Not for direct connection to AC line):</li> </ul>	29.7 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>Ke at 25C +/- 5C:</li> </ol>	103 V/kRPM 0 to peak					
20. Kt (Sine), Ref. at 250 +/- 50.	0.85 Nm/Amp (7.54 lb-ln/Amp) 0 to peak					
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	0.129 ohms					
22. Winding inductance, Ref, phase to phase:	4.16 mH					
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:	800 VAC RMS 50/60 Hz					
24. Audible noise, Ref, at 1 meter distance:	X dBA					
25. Rotor inertia, +/- 10%:	0.02059 kg-m² (0.18224 lb-lh-sec²)					
26. Rotor balancing quality grade:	G-6.3					
27. Friction torque, Ref:	0.366 Nm (3.23 lb-in)					
28. Friction torque, Ref, with shaft seal option installed:	0.46 Nm (4.06 lb-in)					
29. Cogging torque, Ref:	0.256 Nm (2.27 lb-in) peak to peak					
30. Thermal resistance, Ref, winding to ambient:	0.49 degrees C/watt					
31. Thermal time constant, Ref, winding to ambient:	76 minutes					
32. Product weight, Ref:	43.8 Kg (96.5 ID)					
33. Shipping weight, Ref.	49.26 kg (106.5 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 08-26-0	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:

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<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	8 bytes							
15. Single turn absolute positio	<ol> <li>Communication hierarchy: Encoder is slave, communication is externally initiated.</li> <li>Single turn absolute position value range:</li> </ol>					0 to 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	1.6 Amps							
11. TS+, TS- thermostat contin	uous current, max, at 0.6 power factor:		1.6								
<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 (encoder power) 1	nput voltage:		۲.0 ۸۱	mADC	DC						
6. EPWR 5V Inrush Input curre				to 12.0 VI							
5. EPWR 5V continuous input o	current,max, at 5.0 VDC:	drive:	N/A	N/A N/A							
4. EPWR 5V (encoder power) I	nput voitage:		IN/ <i>P</i>	-							
<ol><li>SIN -, COS - voltage offset w</li></ol>	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:	102	24 sinusoio	ds/rev								

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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