

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>	1750 RPM					
J. Operating voltage at base speed.						
6. Continuous stall torque, max, at max winding temperature in a 40C ambient:	.7 Nm (325 lb-in)					
7. Winding temperature, max, in a 40C ambient:	) degrees C					
<ol> <li>8. Continuous stall current, max:</li> <li>9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications:</li> </ol>	27.40 Amps 0 to peak					
9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications:	05 x 305 x 25.4mm (12 x 12 x 1.0 inch)					
10. Peak stall torque, max:	72.3 Nm (640 lb-in)					
11. Peak stall current, max:	55.49 Amps 0 to peak					
12. Rated Speed (Speed at max continous power)	2000					
T3. Continuous output rating, max at rated speed.	J.00 KW (7.51 HP)					
14. Continuous torque, max, at rated speed:	20.0 INTI (233 ID-ITI)					
<ul><li>15. Continuous current, Ref, at rated speed:</li><li>16. Operating voltage, Ref (Not for direct connection to AC line):</li></ul>	17.4 Amps 0 to peak					
16. Operating voltage, Ref (Not for direct connection to AC line):	480 VAC RMS					
17. Insulation class:	55C (Class F)					
<ol> <li>Housing temperature, max:</li> <li>Ke, +/-10%, phase to phase at 25C +/- 5C:</li> <li>Kt (cipe) Bot at 25C +/ 5C:</li> </ol>	125C (257F)					
19. Ke, +/-10%, phase to phase at 25C +/- 5C:	05 V/kRPM 0 to peak					
20. KI (SINE), KEI, AI 250 +/- 50.	70 Nm/Amp (15.00 lb-in/Amp) 0 to peak					
21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	58 ohms					
22. Winding inductance, Ref, phase to phase:	6.47 mH					
23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:	00 VAC RMS 50/60 Hz					
24. Audible noise, Ref, at 1 meter distance:	XX dBA					
25. Rotor inertia, +/- 10%:	02059 kg-m² (0.18224 lb-in-sec²)					
26. Rotor balancing quality grade:						
27. Friction torque, Ref:	0.366 NM (3.23 ID-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 lb)					
33. Shipping weight, Rei:	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						

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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<u>Notes:</u> 1. "Ref" denotes untoleranced spec	cifications, provided for reference only							
<ol> <li>Absolute position data: Binary, value increases with CW shaft rotation viewing motor mounting face.</li> <li>Data (byte) format: Start bit, 8 data bits, parity bit, stop bit.</li> <li>Memory storage capacity, EEPROM:</li> <li>Encoder temperature data: Binary value of encoder temperature in degrees C.</li> </ol>				129 butos				
15. Single turn absolute position va	<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, rat	<ol> <li>TS+, TS- thermostat continuous current, max, at 1.0 power factor:</li> <li>DATA+, DATA- signal type, rate, asynchronous:</li> </ol>							
11. IS+, IS- thermostat continuou	is current, max, at 0.6 power factor:			1.6 Amps 2.5 Amps				
<ol><li>TS+, TS- thermostat operating</li></ol>	voltage, max:			250 Volts				
9. EPWR 9V inrush input current, r	max, when connected to Kinetix6000	drive:	······	3.9 ADC				
8. EPVVR 9V continuous indut curre	it voltage: ent,max, at 9.0 VDC:		C C	30 mADC	DC			
6. EPWR 5V inrush input current, r	max, when connected to Kinetix6000	drive:	۱ -	N/A 7.0 to 12.0 VI				
				N/A				
4. EPWR 5V (encoder power) input	ut voltage:		1	N/A				
3. SIN - COS - voltage offset with	± 10%: respect to ECOM ±0.3 VDC:			2.2 to 2.8 VD				
<ol> <li>SIN, COS waveform output:</li> <li>SIN, COS waveform amplitude, ± 10%:</li> </ol>					ds/rev k to peak			
				1024 sinusoid	de /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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