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2. Speed, torque and current spe	ecifications are for operation with Allen I	Bradley drives.									
1. "Ref" denotes untoleranced sr	pecifications, provided for reference only	V.									
Notes:						,					
34. Operating ambient temperat	ture:			0C to 40C (32F to 1	04F)					
33. Shipping weight, Ref:				26.47 ka (5	3.3 lb)						
32. Product weight Ref				23.2 kg (51.1 lb)							
31 Thermal time constant Ref	winding to ambient:			50 minutes							
30. Thermal resistance. Ref. winding to ambient:			0.37 degrees C/watt								
20. Enclion torque, Ref:			0.16 Nm (1.41 lb-in) neak to neak								
28. Friction torque, Ref. with shaft seal option installed:				0.37 Nm (3.27 lb-in)							
20. Triction torque. Ref:				0.267 Nm (2.36 lb-in)							
26. Rotor balancing guality grade:											
25. Rotor inertia. +/- 10%:				0.007405 k	g-m² (0.0)6554 lb-in-s	ec²)				
24. Audible noise. Ref. at 1 met	er distance:			XX dBA							
23 Dielectric rating of motor po	wer connections (UVW) to ground for	1 second [.]		1800 VAC F	RMS 50/	60 Hz					
22 Winding inductance Ref ph	hase to phase.			12 46 mH							
20. Kt (sine), Ker, at 250 +/- 50: 21. Winding resistance +/- 10% phase to phase at 250 +/- 50:				0.627 ohms							
19. Ke, +/-10%, phase to phase at 250 +/- 50:				1.16 Nm/Amp (10.25 lb-in/Amp) 0 to peak							
19 Ke $\pm/-10\%$ phase to phase	at 25C +/- 5C			140 V/kRPM 0 to peak							
18 Housing temperature may				125C (257F	25C (257F)						
17 Insulation class:				155C (Class	155C (Class F)						
16 Operating voltage Ref (Not	for direct connection to AC line):			480 VAC R	MS	ĸ					
15 Continuous current Ref at	rated speed.			11.3 Amps) to nea	k					
14 Continuous torque may at	rated speed.			11 8 Nm (1))4 lh-in)						
13 Continuous output rating m	av at rated speed:			4.30 kW (5	76 hn)						
12 Pated Speed (Speed at max	(continuus power)			3500	o to pe	an					
10. Peak stall torque, max:				40 NIII (420	D-IN)	ak					
9. Heatsink size, aluminum, atta	ached to front mounting flange for contin	nuous torque specification	ns:	305 X 305 X	12.7mn	n (12 x 12 x (J.5 Inch)				
8. Continuous stall current, max				20.94 Amps	0 to pe	ak					
7. Winding temperature, max, in	n a 40C ambient:			140 degree	s C						
6. Continuous stall torque, max,	, at max winding temperature in a 40C a	ambient:		19.4 Nm (1)	72 lb-in)						
5. Operating voltage at base spe	eed:			440 VAC R	MS						
4. Base speed (max speed at pe	eak torque), Ref:			2250 RPM							
3. Operating Speed, max				3500 RPM							
2. Motor poles:				8							
1. Motor type: 3 phase, wye wir	nding, permanent magnet rotor, totally e	enclosed, non-ventilated.									
General Specifications:											

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:

1. SIN, COS waveform output:				1024 sinusoids/r	ev	
2. SIN, COS waveform amplitu	de, ± 10%:			1.0 VAC peak to	peak	
SIN -, COS - voltage offset v	vith respect to ECOM ±0.3 VDC:			2.5 VDC		
4. EPWR 5V (encoder power) i	nput voltage:			N/A		
5. EPWR 5V continuous input	current,max, at 5.0 VDC:			N/A		
6. EPWR 5V inrush input curre	nt, max, when connected to Kinetix6000	drive:		N/A		
7. EPWR 9V (encoder power) i	nput voltage:			7.0 to 12.0 VDC		
8. EPWR 9V continuous input current,max, at 9.0 VDC:				80 mADC		
9. EPWR 9V inrush input current, max, when connected to Kinetix6000 drive:				3.9 ADC		
10. TS+, TS- thermostat opera	ting voltage, max:			250 Volts		
11. TS+, TS- thermostat contin	uous current, max, at 0.6 power factor:			1.6 Amps		
12. TS+, TS- thermostat contin	uous current, max, at 1.0 power factor:			2.5 Amps		
13. DATA+, DATA- signal type	, rate, asynchronous:			RS 485, 9600 ba	ud	
14. Communication hierarchy:	Encoder is slave, communication is exte	ernally initiated.				
15. Single turn absolute positio	n value range:			0 to 32,767 (15 b	pit)	
16. Absolute position data: Bir	nary, value increases with CW shaft rotat	tion viewing motor mountir	ig face.			
17. Data (byte) format: Start b	it, 8 data bits, parity bit, stop bit.					
18. Memory storage capacity, I	EEPROM:			128 bytes		
19. Encoder temperature data:	Binary value of encoder temperature in	degrees C.				
Notes:						
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1. Type: Spring-set holding brake, releases when voltage applied. 28.3 Nm (250 lb- 2. Holding torque, max: 28.3 Nm (250 lb- 3. 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 6. 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	in)
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9. Encode time delay (when yeltage remayed). Bef with diade used as are suppression device.	
o. Engage time delay, (when voltage removed), Rei, 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	
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

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