

1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated. 8 2. Motor poles: 8 3. Operating Speed, max 2650 RPM 4. Base speed (max speed at peak torque), Ref: 220 VAC RMS 5. Operating voltage at base speed: 220 VAC RMS 6. Continuous stall torque, max, at max winding temperature in a 40C ambient: 44 Nm (743 bi-in) 1. Winding temperature, max, in a 40C ambient: 44 Nm (743 bi-in) 1. Winding temperature, max, in a 40C ambient: 59 & Amps 0 to peak 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications: 305 x 305 x 25.4mm (12 x 12 x 1.0 inch) 10. Peek stall current, max 128.25 Amps 0 to peak 2. Rated Speed (Speed at max continous power) 2000 12. Rated Speed (Speed at max continous power) 2000 13. Continuous output rating, max at rated speed: 7.00 kW (9.38 hp) 14. Continuous output rating, max at rated speed: 119 Amps 0 to peak 15. Continuous output rating, max at rated speed: 125 C 40 VAC RMS 16. Operating voltage, Ref (Not for direct connection to AC line): 126 VAC RMS 17. Insulation class: 125 C 4'-5C: 0.88 Nm/Amp (7.83 bi-in/Amp) 0 to peak 20. Winding inductance, Ref, phase	General Specifications:						
3. Operating Speed, max 250 RPM 4. Base speed (max speed at peak torque), Ref: 2200 RPM 5. Operating Voltage at base speed. 220 VAC RMS 6. Continuous stall torque, max, at max winding temperature in a 40C ambient: 44 Nm (3891b-in) 7. Winding temperature, max, in a 40C ambient: 44 Nm (3891b-in) 8. Continuous stall current, max: 5067 Amps 0 to peak 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications. 506 x 305 x 25 Amm (12 x 12 x 1.0 inch) 10. Peak stall current, max: 54 Mm (7431b-in) 11. Peak stall current, max, at rated speed; 7.00 kW (9.38 hp) 12. Rated Speed (Speed (Sheed At max continous power) 2000 13. Continuous torque, max, at rated speed; 7.00 kW (9.38 hp) 14. Continuous torque, max, at rated speed; 7.00 kW (9.38 hp) 15. Continuous torque, max, at rated speed; 240 VAC RMS 16. Operating temperature, max: 155C (Class F) 17. Insulation class: 155C (Class F) 18. Housing temperature, max: 125C 4/-5C: 19. Ke, 4/-10%, phase to phase at 25C 4/-5C: 0.088 Nm/Amp (7.38 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase 225C +/-5C: 20. Winding inductance, Ref,	1. Motor type: 3 phase, wye winding, permanent magnet rotor, totally enclosed, non-ventilated.						
a. base speed (has speed at peak torque), Ref. 2200 RPM b. Operating voltage at base speed. 220 VAC RMS c. Continuous stall torque, max, in a 40C ambient: 140 degrees C S. Continuous stall current, max. 5967 Amps 0 to peak 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications: 305 x 305 x 25 Amm (12 x 12 x 1.0 inch) 10. Peak stall forque, max, and a 40C ambient: 41 Nm (743 1b-in) 11. Peak stall current, max: 128.25 Amps 0 to peak 12. Rated Speed (Speed at max continous power) 2000 13. Continuous output rating, max at rated speed: 33.4 Nm (296 1b-in) 14. Continuous current, Ref, at rated speed: 33.4 Nm (296 1b-in) 15. Continuous current, Ref, at rated speed: 33.4 Nm (296 1b-in) 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature, max: 126 Zer /- SC: 19. Winding resistance, H- 10%, phase to phase at 25C +/- SC: 0.08 Nm/Amp (7.8 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase at 25C +/- SC: 0.08 Nm (Am (200 2) 10 VAC RMS 50/60 Hz 21. Winding inductance, Ref, strated speed: 0.20 XMM (48 kg/m² (0.21675 lb-in-sec²) 22. Rot	2. Motor poles:	8					
a. base speed (has speed at peak torque), Ref. 2200 RPM b. Operating voltage at base speed. 220 VAC RMS c. Continuous stall torque, max, in a 40C ambient: 140 degrees C S. Continuous stall current, max. 5967 Amps 0 to peak 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications: 305 x 305 x 25 Amm (12 x 12 x 1.0 inch) 10. Peak stall forque, max, and a 40C ambient: 41 Nm (743 1b-in) 11. Peak stall current, max: 128.25 Amps 0 to peak 12. Rated Speed (Speed at max continous power) 2000 13. Continuous output rating, max at rated speed: 33.4 Nm (296 1b-in) 14. Continuous current, Ref, at rated speed: 33.4 Nm (296 1b-in) 15. Continuous current, Ref, at rated speed: 33.4 Nm (296 1b-in) 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature, max: 126 Zer /- SC: 19. Winding resistance, H- 10%, phase to phase at 25C +/- SC: 0.08 Nm/Amp (7.8 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase at 25C +/- SC: 0.08 Nm (Am (200 2) 10 VAC RMS 50/60 Hz 21. Winding inductance, Ref, strated speed: 0.20 XMM (48 kg/m² (0.21675 lb-in-sec²) 22. Rot	3. Operating Speed, max	2650 RPM					
2. Optiming routing to tobe inpart of the second state	4. Base speed (max speed at peak torque), Ref:	2200 RPM					
6. Continuous stall torque, max, at max winding temperature in a 40C ambient: 44 Nm (388 lb-in) 7. Winding temperature, max, in <u>a 40C ambient:</u> 140 degrees C 8. Continuous stall current, max: 967 Amps 0 to peak 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications: 305 x 305 x 25 Arum (12 x 12 x 1.0 inch) 10. Peak stall current, max: 128.25 Amps 0 to peak 12. Rated Speed (Speed at max continuous power) 2000 13. Continuous output rating, max at rated speed: 7.00 kW (9.38 hp) 14. Continuous corque, flex, at rated speed: 33.4 Nm (296 lb-in) 15. Continuous corque, flex, at rated speed: 33.4 Nm (296 lb-in) 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature, max: 126 C2 (257 F) 19. K e, +/-10%, phase to phase at 25C +/- 5C: 0.08 Nm/Amp (7.8 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.08 Nm/Amp (7.8 lb-in) 21. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.08 Nm/Amp (7.8 lb-in) 22. Winding inductance, Ref, with shaft seal option installed: 2.07 mH 23. Delectic rating of motor power connections (UV,W), to ground for 1 second: <td< td=""><td></td><td></td></td<>							
7. Winding temperature, max, in a 40C ambient: 140 degrees C 8. Continuous stall current, max, 56.7 Amps 0 to peak 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications; 305 x 305 x 25.4 mm (12 x 12 x 1.0 inch) 10. Peak stall orque, max, 84 Nm (743 lb-in) 11. Peak stall current, max: 128.25 Amps 0 to peak 12. Rated Speed (Speed at max continous power) 2000 13. Continuous output rating, max at rated speed: 7.00 kW (9.38 hp) 14. Continuous torque, max, at rated speed: 33.4 Nm (296 lb-in) 15. Continuous current, Ref, at rated speed: 34.4 Nm (296 lb-in) 16. Operating voltage, Ref (Not for direct connection to AC line): 140 vAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature, max: 125C 257F) 19. Kef, r10%, phase to phase at 25C +/- 5C: 0.07 V/KRPM 0 to peak 20. Winding inductance, Ref, phase to phase: 2.07 mH 23. Dielectric rating of motor power connections (U.V.W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at the ote phase: 2.07 mH 23. Rotor iseria, +/ 10%; 0.02449 kg-m² (0.21675 lb-in-sec²) 24. Rotor balancing quality grade: G-6.3 <td< td=""><td>Continuous stall torque, max, at max winding temperature in a 40C ambient:</td><td>44 Nm (389 lb-in)</td></td<>	Continuous stall torque, max, at max winding temperature in a 40C ambient:	44 Nm (389 lb-in)					
b. Continuous stan current, max. 0.900 Atings 00 peak 9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications: 0.905 x 305 x 25.4mm (12 x 12 x 1.0 inch) 10. Peak stall torque, max: 12.8 tand Speed (3 peed at max continous power) 2000 12. Rated Speed (Speed at max continous power) 2000 13. Continuous output rating, max at rated speed: 7.00 kW (9.38 hp) 14. Continuous output rating, max, at rated speed: 3.34 Nm (286 lb-in) 15. Continuous output rating, max, at rated speed: 41.9 Amps 0 to peak 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 125C (263F F) 18. Housing temperature, max: 125C (263F F) 19. Ke, +/10%, phase to phase at 25C +/-5C: 0.083 Nm/Amp (7.83 lb-in/Amp) 0 to peak 20. Winding inductance. Ref, phase to phase; 2.07 mH 21. Winding inductance. Ref, phase to phase; 2.07 mH 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: 2.07 mH 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: 0.083 N	7. Winding temperature, max, in a 40C ambient:	140 degrees C					
10. Peak stall current, max. B4 Nm (743 lb-in) 11. Peak stall current, max. 128 254 Mms (743 lb-in) 12. Rated Speed (Speed at max continous power) 2000 13. Continuous output rating, max at rated speed: 7.00 kW (9.38 hp) 14. Continuous output rating, max at rated speed: 34. Nm (743 lb-in) 15. Continuous current, Ref, at rated speed: 14.9 Amps 0 to peak 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature, max. 125C (257F) 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak 20. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak 20. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.81 lb-in/Amp) 0 to peak 21. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.81 lb-in/Amp) 0 to peak 22. Winductance, Ref, phase to phase at 25C +/- 5C: 0.88 Nm (7.8 lb-in) 23. Delectric rating of motor power connections (U,V,W), to ground for 1 second: 200 UC2449 kg-m² (0.21675 lb-in-sec²) 24. Audible noise, Ref, at 1 meter distance	8. Continuous stall current, max:	59.67 Amps 0 to peak					
10. Peak stall ourget, max. B4 Nm (743 lb-in) 11. Peak stall ourget, max. 128 25 Amps 0 to peak 12. Rated Speed (Speed at max continous power) 2000 13. Continuous output rating, max at rated speed: 7.00 kW (9.38 hp) 14. Continuous output rating, max at rated speed: 33.4 Nm (296 lb-in) 15. Continuous current, Ref, at rated speed: 41.9 Amps 0 to peak 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature, max. 125C (257F) 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak 20. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.81 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.81 lb-in/Amp) 0 to peak 21. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.88 Nm (7.8 lb-in) 22. Delectric rating of motor power connections (U,V,W), to ground for 1 second: 1200 VAC RMS 50/60 Hz 23. Audible noise, Ref, at 1 meter distance: <td< td=""><td>9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications:</td><td>305 x 305 x 25.4mm (12 x 12 x 1.0 inch)</td></td<>	9. Heatsink size, aluminum, attached to front mounting flange for continuous torque specifications:	305 x 305 x 25.4mm (12 x 12 x 1.0 inch)					
11. Peak stall current, max: 128 25 Amps 0 to peak 12. Rated Speed (Speed at max continous power) 2000 13. Continuous torque, max, at rated speed: 7.00 kW (9.38 hp) 14. Continuous torque, max, at rated speed: 33.4 Nm (296 lb-in) 15. Continuous current, Ref, at rated speed: 41.9 Amps 0 to peak 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature, max: 125C (257F) 19. Ke, 4+10%, phase to phase at 25C +/- 5C: 07 V/KRPM 0 to peak 20. Kt (sine), Ref, at 25C +/- 5C: 0.083 hms 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 hms 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 hms 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 hms 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 hms 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 hms 20. Winding inductance is to phase; 2.07 mH 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: 2.07 mH 25. Rotor balancing quali	10. Peak stall torque, max:	84 Nm (743 lb-in)					
12. Rated Speed (Speed at max continous power) 2000 13. Continuous output rating, max at rated speed: 7.00 kW (9.38 hp) 14. Continuous current, Ref, at rated speed: 33.4 Nm (296 lb-in) 15. Continuous current, Ref, at rated speed: 41.9 Amps 0 to peak 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature, max: 125C (257F) 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 0.08 Nm/Amp (7.63 lb-in/Amp) 0 to peak 20. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 22. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor palancing quality grade: C-6-3 27. Friction torque, Ref: 0.88 Mm (7.8 lb-in) 28. Priction torque, Ref, with shaft seal option installed: 0.35 degrees C/watt 30. Thermal time constant, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 0.35 degrees C/watt	11. Peak stall current, max:						
13. Continuous output rating, max at rated speed: 7.00 kW (9.35 mp) 14. Continuous output, max, at rated speed: 33.4 Nm (296 lb-in) 15. Continuous current, Ref, at rated speed: 41.9 Amps 0 to peak 16. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 17. Insulation class: 155C (Class F) 18. Housing temperature; max: 125C (257F) 19. Ke, +/10%, phase to phase at 25C +/- 5C: 0.70 V/KPM 0 to peak 20. Kt (sine), Ref, at 25C +/- 5C: 0.088 Nm/Amp (7.83 lb-in/Amp) 0 to peak 21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.083 ohms 22. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 23. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.083 ohms 24. Wurding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.083 ohms 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref, with shaft seal option installed: 1.24 Nm (111 b-in) 29. Cogging torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal time constant, Ref, winding to ambient: 0.62 Nm (5.46 lb-in) peak to peak 31. Thermal time constant, Ref, winding to ambient: <td< td=""><td>12. Rated Speed (Speed at max continous power)</td><td>2000</td></td<>	12. Rated Speed (Speed at max continous power)	2000					
11. Continuous current, Ref, at rated speed: 3.4. Nim (250 cm/n) 12. Continuous current, Ref, at rated speed: 41.9 Amps 0 to peak 13. Continuous current, Ref, at rated speed: 41.9 Amps 0 to peak 14. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 15. Insulation class: 155C (Class F) 18. Housing temperature, max: 125C (257F) 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 Ib-in/Amp) 0 to peak 20. Vinding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 Ib-in/Amp) 0 to peak 21. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 22. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 0.02449 kg-m² (0.21675 Ib-in-sec³) 26. Rotor balancing quality grade: G-6.3 0.02449 kg-m² (0.21675 Ib-in-sec³) 26. Rotor balancing quality grade: 0.62 Nm (5.46 Ib-in) peak to peak 30. Thermal time constant, Ref, winding to ambient:	13. Continuous output rating, max at rated speed:	7.00 KW (9.38 np)					
10. Operating voltage, Ref (Not for direct connection to AC line): 240 VAC RMS 11. Insulation class: 155C (Class F) 12. Housing temperature, max: 125C (257F) 13. Housing temperature, in ax: 125C (257F) 14. Housing temperature, in ax: 125C (257F) 15. Ke, +/-10%, phase to phase at 25C +/- 5C: 107 V/kRPM 0 to peak 14. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak 15. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 16. Operating voltage, Ref, at 1 meter distance: 2.07 mH 17. Instructure, Ref, at 1 meter distance: XX dBA 15. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 16. Operating voltage reference G-6.3 17. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 18. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 19. Voltage reference G-6.3 10. Thermal time constant, Ref, winding to ambient: 0.35 degrees C/watt 10. Thermal time constant, Ref, winding to ambient: 0.35 degrees C/watt 19. Product weight, Ref: G-6.47 kg (147.3 lb) 19. Operating ambient temperature: 0C to 40C (32F to 104F) 19. Operating ambient	14. Continuous torque, max, at rated speed.	33.4 Mill (290 ID-III)					
11. Insulation class: 155C (Class P) 18. Housing temperature, max: 155C (Class P) 18. Housing temperature, max: 125C (Class P) 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 0.07 V/kRPM 0 to peak 20. Kt (sine), Ref, at 25C +/- 5C: 0.083 ohms 21. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 22. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 66.87 kg (147.3 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 lb) 34. Operating ambient temperature: 0C to 40C (32F to 104F) Notes: 0.1 1.1 1. "Ref" denotes untolera	15. Continuous current, Ref, at rated speed:	41.9 Amps 0 to peak					
11. Insulation class: 155C (Class P) 18. Housing temperature, max: 155C (Class P) 18. Housing temperature, max: 125C (Class P) 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 0.07 V/kRPM 0 to peak 20. Kt (sine), Ref, at 25C +/- 5C: 0.083 ohms 21. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 22. Winding inductance, Ref, phase to phase at 25C +/- 5C: 0.083 ohms 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 66.87 kg (147.3 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 lb) 34. Operating ambient temperature: 0C to 40C (32F to 104F) Notes: 0.1 1.1 1. "Ref" denotes untolera	16. Operating voltage, Ref (Not for direct connection to AC line):	240 VAC RMS					
18. Housing temperature, max: 125C (257F) 19. Ke, +/-10%, phase to phase at 25C +/- 5C: 0.7 V/kRPM 0 to peak 20. Kt (sine), Ref, at 25C +/- 5C: 0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak 21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C: 0.083 ohms 22. Winding noticitating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%; 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 29. Cogging torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees Clwatt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 66.87 kg (147.3 lb) 33. Shipping weight, Ref: 0C to 40C (32F to 104F) 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. Engineering Specification Electrical <td></td> <td></td>							
20. Kt (Sine), Ref. at 25C +/- 5C: 0.083 Nms 21. Winding resistance, +/- 10%, phase to phase: 0.083 ohms 22. Winding inductance, Ref, phase to phase: 2.07 mH 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: 6-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 0C to 40C (32F to 104F) Notes: Notes: 1. "Ref" denotes untoleranced specifications, provided for reference only. 2. Speed, torque and current specifications, provided for reference only. 2. Speed, torque and current specifications are for operation with Allen Bradley drives.	18. Housing temperature, max:	125C (257F)					
20. Kt (Sine), Ref. at 25C +/- 5C: 0.083 Nms 21. Winding resistance, +/- 10%, phase to phase: 0.083 ohms 22. Winding inductance, Ref, phase to phase: 2.07 mH 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: 6-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 0C to 40C (32F to 104F) Notes: Notes: 1. "Ref" denotes untoleranced specifications, provided for reference only. 2. Speed, torque and current specifications, provided for reference only. 2. Speed, torque and current specifications are for operation with Allen Bradley drives.	19. Ke, +/-10%, phase to phase at 25C +/- 5C:	107 V/kRPM 0 to peak					
21. Writing resistance, +/- 10%, phase to phase: 0.063 0 mms 22. Winding inductance, Ref, phase to phase: 2.07 mH 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref: 0.62 VM (11 lb-in) 29. Cogging torque, Ref: 0.62 VM (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 66.87 kg (147.3 lb) 33. Shipping weight, Ref: 0.2 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. Sheet 2 of 5	20. Kt (sine), Kei, at 250 +/- 50.	0.88 Nm/Amp (7.83 lb-in/Amp) 0 to peak					
22. Winding inductance, Ref, phase to phase: 2.07 mH 23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second: 1800 VAC RMS 50/60 Hz 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref, with shaft seal option installed: 1.24 Nm (11 lb-in) 29. Cogging torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 97 minutes 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 66.87 kg (147.3 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. Sheet 2 of 5	21. Winding resistance, +/- 10%, phase to phase at 25C +/- 5C:	0.083 ohms					
23. Dielectric rating of motor power connections (U, V, W), to ground for 1 second: 1800 VAC RNIS SU/60 H2 24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 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. 2 of 5	22. Winding inductance, Ref, phase to phase:						
24. Audible noise, Ref, at 1 meter distance: XX dBA 25. Rotor inertia, +/- 10%: 0.02449 kg-m² (0.21675 lb-in-sec²) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref, with shaft seal option installed: 1.24 Nm (11 lb-in) 29. Cogging torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 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. 2 of 5	23. Dielectric rating of motor power connections (U,V,W), to ground for 1 second:						
25. Rotor inertia, 4/- 10%: 0.02449 kg-m² (0.21675 lb-lh-sec*) 26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 29. Cogging torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 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. 2 of 20. COMPREMENTANT MERGEMENT Engineering Specification Electrical	24. Audible noise, Ref, at 1 meter distance:	XX dBA					
26. Rotor balancing quality grade: G-6.3 27. Friction torque, Ref: 0.88 Nm (7.8 lb-in) 28. Friction torque, Ref, with shaft seal option installed: 1.24 Nm (11 lb-in) 29. Cogging torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 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. 20. Speed, torque and current specifications are for operation with Allen Bradley drives. 2 of 5	25. Rotor inertia, +/- 10%:).02449 kg-m² (0.21675 lb-in-sec²)					
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28. Friction torque, Ref, with shaft seal option installed: 1.24 Nm (11 lb-in) 29. Cogging torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 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. Sheet 2 of 5		$0.00 \text{ M}_{\text{max}} (7.0 \text{ H}_{\text{max}})$					
29. Cogging torque, Ref: 0.62 Nm (5.46 lb-in) peak to peak 30. Thermal resistance, Ref, winding to ambient: 0.35 degrees C/watt 31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 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. Sheet 2 of 5							
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31. Thermal time constant, Ref, winding to ambient: 97 minutes 32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 lb) 34. Operating ambient temperature: 0C to 40C (32F to 104F) Notes: 0C to 40C (32F to 104F) 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	30. Thermal resistance, Ref, winding to ambient:	0.35 degrees C/watt					
32. Product weight, Ref: 61.6 kg (135.7 lb) 33. Shipping weight, Ref: 66.87 kg (147.3 lb) 34. Operating ambient temperature: 0C to 40C (32F to 104F) Notes: 0C to 40C (32F to 104F) 1. "Ref" denotes untoleranced specifications, provided for reference only. 0C to 40C (32F to 104F) 2. Speed, torque and current specifications are for operation with Allen Bradley drives. 0 CONFIDENTIAL AND PROPRIETARY INFORMATION Engineering Specification Electrical	31. Thermal time constant, Ref, winding to ambient:	97 minutes					
33. Shipping weight, Ker. 66.67 kg (147.3 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 0 5	32. Product weight, Ref:	61.6 kg (135.7 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	33. Shipping weight, Ref.	66.67 Kg (147.3 ID)					
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	34. Operating ambient temperature:	0C to 40C (32F to 104F)					
2. Speed, torque and current specifications are for operation with Allen Bradley drives. confidential and proprietary information Engineering Specification Electrical Sheet 2 of 5	Notes.						
CONFIDENTIAL AND PROPRIETARY INFORMATION Engineering Specification Electrical Sheet 2 of 5	 "Ref" denotes untoleranced specifications, provided for reference only. 						
CONFIDENTIAL AND PROPRIETARY INFORMATION Engineering Specification Electrical Sheet 2 of 5							
	confidential and proprietary information Engineering Specification Electrical						
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Dr. Scott Johnson Date 08-26-09	Dr Scott Johnson Date 08-26						

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 pair	nted.

1. SIN, COS waveform output:				4 sinusoid				
2. SIN, COS waveform amplitud	le, ± 10%:		1.0 `	VAC peak				
3. SIN -, COS - voltage offset w	ith respect to ECOM ±0.3 VDC:		2.2 1	to 2.8 VD0	C			
4. EPWR 5V (encoder power) in	iput voltage.		IN/A					
5. EPWR 5V continuous input c	urrent.max. at 5.0 VDC:		N/A					
6. EPWR 5V inrush input currer	nt, max, when connected to Kinetix6000	drive:	N/A					
7. EPWR 9V (encoder power) in	nput voltage:		7.01	to 12.0 VE	C			
8. EPWR 9V continuous input c	urrent,max, at 9.0 VDC:		80 n	nADC				
9. EPWR 9V inrush input currer	nt, max, when connected to Kinetix6000	drive:	3.9 /	ADC				
TS+, TS- thermostat operat	ing voltage, max:		250	Volts				
11. TS+, TS- thermostat continu	Lous current, max, at 0.6 power factor:		1.6	Amps				
12. TS+, TS- thermostat continu	uous current, max, at 1.0 power factor:		2.5 /	Amps				
13. DATA+, DATA- signal type,	rate asynchronous.		RSA	485, 9600	baud			
14. Communication hierarchy:	Encoder is slave, communication is exte	ernally initiated.						
15. Single turn absolute position	<u> </u>			32,767 (1	5 bit)			
16. Absolute position data: Bin	ary, value increases with CW shaft rotat	tion viewing motor mounting	face.					
17. Data (byte) format: Start bit	, 8 data bits, parity bit, stop bit.							
18. Memory storage capacity, E	EPROM:		128	bytes				
19. Encoder temperature data:	Binary value of encoder temperature in	degrees C.						
Notes: 1. "Ref" denotes untoleranced s			Electrical	Sha	ot	3	of	5
1. "Ref" denotes untoleranced s		Engineering Specification		She	et	3	of	5
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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:

1. "Ref" denotes untoleranced specifications, provided for reference only.

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