## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12448181 Catalog #: 04036ET3E324TS-W22 Frame : 324/6TS Locked rotor time : 39s (cold) 22s (hot) Output : 40 HP (30 kW) Temperature rise : 80 K Poles : 2 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Rated current : 92.6/46.3 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 584/292 A : 6.3x(Code G) LRC Mounting : F-1 No load current : 25.0/12.5 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3555 rpm Noise level<sup>2</sup> : 76.0 dB(A) Slip : 1.25 % Starting method : Direct On Line Rated torque : 59.1 ft.lb Approx. weight<sup>3</sup> : 485 lb Locked rotor torque : 250 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.90 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 0.000 91.7 90.9 92.4 91.8 92.4 92.7 Max. traction : 385 lb 0.000 90.3 90.7 91.7 92.1 92.7 92.7 91.7 91.7 91.7 91.7 91.0 91.7 91.7 92.4 91.7  $0.00\ 0.00\ 0.80\ 0.77\ 0.86\ 0.85\ 0.88\ 0.88$ Power Factor Max. compression : 870 lb 0.74 0.71 0.83 0.80 0.86 0.85 0.84 0.81 0.88 0.86 0.89 0.88 0.78 0.85 0.87 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.4 7.1 8.2 8.2 P2 (0,5;1,0) 4.5 4.7 4.5 4.5 5.7 5.2 5.2 P3 (0,25;1,0) 3.8 3.6 3.6 3.6 4.6 4.2 4.2 P4 (0,9;0,5) Losses (%) 4.6 4.4 4.4 4.4 5.5 5.0 5.0 P5 (0,5;0,5) 2.2 2.1 2.1 2.1 2.7 2.4 2.4 P6 (0,5;0,25) 1.7 1.6 1.6 1.6 2.0 1.8 1.8 P7 8.0 8.0 8.0 8.0 1.0 0.9 0.9 (0,25;0,25)Drive end Non drive end Bearing type 6312 C3 6212 C3 Sealing V'Ring V'Ring Lubrication interval 12000 h 15000 h 13 g Lubricant amount 21 g Mobil Polyrex EM Lubricant type Notes: This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	28/03/2024			1/1	