## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11431306 Three-Phase Catalog #: 05036ST3QIE326TS-W22 Frame : 324/6TS Locked rotor time : 63s (cold) 35s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 460 V Altitude Rated current : 56.7 A Protection degree : IP56 L. R. Amperes : 357 A Cooling method : IC411 - TEFC LRC : 6.3x(Code G) Mounting : F-1 No load current : 14.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3555 rpm Noise level<sup>2</sup> : 76.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 73.9 ft.lb Approx. weight<sup>3</sup> : 558 lb Locked rotor torque : 240 % Breakdown torque : 229 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.75 sq.ft.lb Design : B 50% 75% 100% Foundation loads Output Efficiency (%) 93.0 92.8 93.0 92.9 93.0 93.3 Max. traction : 472 lb 92.2 92.2 92.8 93.1 93.3 93.3 93.0 93.0 92.4 92.4 91.0 91.7 93.0 93.0 92.4 Power Factor 0.81 0.80 0.87 0.87 0.88 0.89 Max. compression : 1030 lb 0.77 0.76 0.85 0.84 0.88 0.87 0.85 0.83 0.88 0.87 0.89 0.89 0.82 0.86 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 8.2 7.8 7.8 7.8 10.8 9.9 8.9 P2 (0,5;1,0) 6.5 6.2 6.2 6.2 9.0 8.2 7.3 P3 (0,25;1,0) 5.8 5.5 5.5 5.5 8.3 7.4 6.5 P4 (0,9;0,5) Losses (%) 4.0 3.9 3.9 3.9 5.2 4.8 4.4 P5 (0,5;0,5) 2.5 2.4 2.4 2.4 3.4 3.1 2.8 P6 (0,5;0,25) 1.6 1.5 1.5 1.5 2.2 2.0 1.8 P7 1.0 1.0 1.0 1.0 1.5 1.4 1.2 (0,25;0,25)Drive end Non drive end Bearing type 6312 C3 6212 C3 Inpro/Seal Sealing Inpro/Seal Lubrication interval 12000 h 15000 h Lubricant amount 21 g 13 g Lubricant type Mobil Polyrex EM 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 fu	ıll load.					
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	25/03/2024				1/1	