## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12447101 Catalog #: 02536ET3E284TSC-W22 Frame Locked rotor time : 30s (cold) 17s (hot) : 284/6TSC Output : 25 HP (18.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 230/460 V Altitude : IP55 Rated current : 57.5/28.8 A Protection degree L. R. Amperes : 363/181 A Cooling method : IC411 - TEFC LRC : 6.3x(Code G) Mounting : F-1 No load current : 16.3/8.15 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3545 rpm Noise level<sup>2</sup> : 72.0 dB(A) Slip : 1.53 % Starting method : Direct On Line Rated torque : 37.0 ft.lb Approx. weight<sup>3</sup> : 383 lb : 200 % Locked rotor torque Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 2.69 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 0.000 91.0 90.2 91.7 90.7 91.7 91.9 Max. traction : 276 lb 90.3 89.8 91.1 91.1 91.9 91.9 91.0 91.0 90.2 91.0 89.5 90.2 91.0 91.0 91.0 0.78 0.79 0.85 0.86 0.88 0.88 Power Factor 0.00 Max. compression : 658 lb 0.76 0.73 0.84 0.82 0.87 0.86 0.83 0.81 0.88 0.87 0.89 0.88 0.79 0.85 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 8.1 7.9 7.9 7.9 10.6 9.8 8.9 P2 (0,5;1,0) 5.6 5.5 5.5 5.5 7.3 6.7 6.1 P3 (0,25;1,0) 4.9 4.8 4.8 4.8 6.3 5.9 5.3 P4 (0,9;0,5) Losses (%) 4.8 4.6 4.6 4.6 6.2 5.7 5.2 P5 (0,5;0,5) 2.5 2.4 2.4 2.4 3.2 2.9 2.7 P6 (0,5;0,25) 1.7 1.7 1.7 1.7 2.2 2.1 1.9 P7 0.9 0.9 0.9 0.9 1.2 1.1 1.0 (0,25;0,25)Drive end Non drive end Bearing type 6311 C3 6211 C3 Sealing V'Ring V'Ring 14000 h Lubrication interval 17000 h Lubricant amount 18 g 11 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	