## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12075631 Catalog #: 40018ET3G449TS-W22 Frame : L447/9TS Locked rotor time : 37s (cold) 21s (hot) Output : 400 HP (300 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude : 445 A Rated current Protection degree : IP55 L. R. Amperes : 2893 A Cooling method : IC411 - TEFC LRC : 6.5x(Code G) Mounting : F-1 No load current : 125 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1785 rpm Noise level<sup>2</sup> : 79.0 dB(A) Starting method Slip : 0.83 % : Direct On Line Rated torque : 1180 ft.lb Approx. weight<sup>3</sup> : 3135 lb Locked rotor torque : 250 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 136 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 94.9 95.4 95.4 95.8 95.8 95.8 96.2 96.2 Max. traction : 8001 lb 94.9 94.9 95.4 95.4 95.8 95.8 96.2 96.2 Power Factor 0.55 0.56 0.80 0.81 0.85 0.86 0.88 0.89 Max. compression : 11136 lb 0.52 0.48 0.77 0.74 0.84 0.82 0.87 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.5 4.5 4.5 4.5 P2 (0,5;1,0) 3.3 3.3 3.3 3.3 P3 (0,25;1,0) 2.7 2.7 2.7 2.7 Losses (%) P4 (0,9;0,5) 2.5 2.5 2.5 2.5 P5 (0,5;0,5) 1.5 1.5 1.5 1.5 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.6 0.6 0.6 0.6 Non drive end **Drive end** 6314 C3 Bearing type 6314 C3 WSeal WSeal Sealing Lubrication interval 12000 h 12000 h Lubricant amount 27 g 27 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.
- (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.

MG-1.

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