DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11408913 Catalog #: 50018ET3GRB449T-W22 Frame : L447/9T Locked rotor time : 39s (cold) 22s (hot) Output : 500 HP (370 kW) Temperature rise : 105 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 Rated current : 568 A Protection degree : IP55 L. R. Amperes : 4998 A Cooling method : IC411 - TEFC LRC : 8.8x(Code J) Mounting : F-1 No load current : 225 A Rotation¹ : Both (CW and CCW) Rated speed : 1789 rpm Noise level² : 79.0 dB(A) Starting method Slip : 0.61 % : Direct On Line Rated torque : 1470 ft.lb Approx. weight³ : 3528 lb Locked rotor torque : 300 % Breakdown torque : 280 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 160 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 95.3 95.7 95.4 95.8 96.2 96.2 96.2 96.2 Max. traction : 11343 lb 95.0 95.0 95.4 95.4 95.8 95.8 96.2 96.2 Power Factor 0.45 0.48 0.72 0.74 0.81 0.83 0.85 0.86 : 14871 lb Max. compression 0.44 0.40 0.70 0.66 0.80 0.77 0.84 0.82 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** 6319 C3 Bearing type NU-322 C3 WSeal WSeal Sealing Lubrication interval 4000 h 8000 h Lubricant amount 60 g 45 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

This revision replaces and cancel the previous one, which must be eliminated.

- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/03/2024			1/1	