DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12546171 Catalog #: 02512ET3E324TC-W22 Frame : 324/6TC Locked rotor time : 46s (cold) 26s (hot) 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 Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 61.6/30.8 A Protection degree : IP55 L. R. Amperes : 382/191 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 28.0/14.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1180 rpm Noise level² : 62.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 111 ft.lb Approx. weight³ : 560 lb : 210 % Locked rotor torque Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 11.5 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 92.4 91.1 93.0 91.8 93.0 91.6 Max. traction : 1005 lb 91.1 91.1 92.2 92.2 92.2 92.2 91.7 91.7 92.4 92.4 91.0 91.7 91.7 92.4 91.7 Power Factor 0.65 0.63 0.76 0.76 0.81 0.82 Max. compression : 1565 lb 0.80 0.78 0.60 0.57 0.74 0.71 0.71 0.68 0.80 0.78 0.84 0.83 0.65 0.77 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.3 8.8 8.2 8.2 8.7 8.7 P2 (0,5;1,0) 6.1 7.4 6.8 6.8 8.0 7.3 7.3 P3 (0,25;1,0) 5.9 7.2 6.7 6.7 7.8 7.1 7.1 P4 (0,9;0,5) Losses (%) 3.7 4.5 4.1 4.1 4.8 4.4 4.4 P5 (0,5;0,5) 2.5 3.1 2.9 2.9 3.3 3.1 3.1 P6 (0,5;0,25) 1.7 2.1 2.0 2.0 2.3 2.1 2.1 P7 1.2 1.5 1.4 1.4 1.6 1.5 1.5 (0,25;0,25)Drive end Non drive end Bearing type 6312 C3 6212 C3 Sealing V'Ring V'Ring 20000 h Lubrication interval 20000 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 full load.

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