DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Close Coupled Pump JM NEMA Product code: 12588407 Premium Efficiency Three-Phase Catalog #: 04036ET3E324JM-W22 : 324/6JM : 39s (cold) 22s (hot) Frame Locked rotor time Output : 40 HP (30 kW) Temperature rise : 80 K Poles : 2 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. : IP55 Rated current : 92.6/46.3 A Protection degree L. R. Amperes : 584/292 A Cooling method : IC411 - TEFC LRC : 6.3x(Code G) Mounting : F-1 No load current : 25.0/12.5 A Rotation¹ : Both (CW and CCW) Rated speed : 3555 rpm Noise level² : 76.0 dB(A) Slip : 1.25 % Starting method : Direct On Line Rated torque : 59.1 ft.lb Approx. weight³ : 501 lb Locked rotor torque : 250 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.90 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 91.5 90.0 91.7 90.9 92.4 91.8 92.4 92.7 Max. traction : 377 lb 89.2 90.0 90.3 90.7 91.7 92.1 92.7 92.7 92.2 91.6 91.7 91.7 91.7 91.7 91.0 91.7 92.1 91.7 92.4 91.7 $0.56\; 0.54\; 0.80\; 0.77\; 0.86\; 0.85\; 0.88\; 0.88$ Power Factor Max. compression : 879 lb 0.50 0.46 0.74 0.71 0.83 0.80 0.86 0.85 0.62 0.58 0.84 0.81 0.88 0.86 0.89 0.88 0.54 0.78 0.85 0.87 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.4 7.1 8.2 8.2 P2 (0,5;1,0) 4.5 4.7 4.5 4.5 5.7 5.2 5.2 P3 (0,25;1,0) 3.8 3.6 3.6 3.6 4.6 4.2 4.2 P4 (0,9;0,5) Losses (%) 4.6 4.4 4.4 4.4 5.5 5.0 5.0 P5 (0,5;0,5) 2.2 2.1 2.1 2.1 2.7 2.4 2.4 P6 (0,5;0,25) 1.7 1.6 1.6 1.6 2.0 1.8 1.8 P7 8.0 8.0 8.0 8.0 1.0 0.9 0.9 (0,25;0,25)Drive end Non drive end Bearing type 6312 C3 6212 C3 Sealing V'Ring V'Ring Lubrication interval 12000 h 15000 h Lubricant amount 21 g 13 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	29/03/2024				1/1	