DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Close Coupled Pump JM NEMA Product code: 11641169 Premium Efficiency Three-Phase Catalog #: 02036ET3E256JM-W22 : 254/6JM Frame Locked rotor time : 25s (cold) 14s (hot) Output : 20 HP (15 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. Rated current : 46.5/23.3 A Protection degree : IP55 L. R. Amperes : 284/142 A Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : F-1 No load current : 13.0/6.50 A Rotation¹ : Both (CW and CCW) Rated speed : 3525 rpm Noise level² : 72.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 29.8 ft.lb Approx. weight³ : 265 lb : 200 % Locked rotor torque : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.54 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 90.5 90.2 90.7 90.6 91.0 90.9 91.0 91.2 Max. traction : 265 lb 90.2 89.5 90.4 89.8 91.2 91.1 91.2 91.2 86.9 88.9 87.2 89.2 87.5 89.5 87.5 89.5 89.0 89.2 89.5 89.5 $0.56\; 0.54\; 0.80\; 0.78\; 0.87\; 0.86\; 0.89\; 0.89$ Power Factor Max. compression : 530 lb 0.50 0.48 0.75 0.73 0.84 0.83 0.88 0.87 0.64 0.60 0.85 0.82 0.89 0.88 0.90 0.89 0.57 0.80 0.87 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.0 8.8 8.8 8.8 13.0 10.7 10.7 P2 (0,5;1,0) 6.6 6.5 6.5 6.5 9.6 7.9 7.9 P3 (0,25;1,0) 6.2 6.0 6.0 6.0 8.9 7.3 7.3 P4 (0,9;0,5) Losses (%) 4.9 4.8 4.8 4.8 7.1 5.8 5.8 P5 (0,5;0,5) 2.7 2.6 2.6 2.6 3.9 3.2 3.2 P6 (0,5;0,25) 1.8 1.7 1.7 1.7 2.6 2.1 2.1 P7 1.0 1.0 1.0 1.0 1.5 1.2 1.2 (0,25;0,25)Drive end Non drive end Bearing type 6309 C3 6209 C3 Sealing V'Ring V'Ring Lubrication interval 19000 h 20000 h Lubricant amount 13 g 9 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	