DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12447063 Catalog #: 02009ET3E324T-W22 Frame : 324/6T Locked rotor time : 48s (cold) 27s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles 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 : 56.6/28.3 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 283/142 A LRC : 5.0x(Code G) Mounting : F-1 No load current : 32.0/16.0 A Rotation¹ : Both (CW and CCW) Rated speed : 880 rpm Noise level² : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 119 ft.lb Approx. weight3 : 509 lb Locked rotor torque : 190 % Breakdown torque : 220 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.37 sq.ft.lb Design : B Output 50% 75% 100% Foundation loads Efficiency (%) 89.5 88.5 91.0 89.6 91.0 89.5 Max. traction : 905 lb 89.0 88.5 89.3 89.0 87.4 86.3 89.5 88.5 89.5 89.5 88.5 88.5 87.5 89.5 88.5 0.73 0.72 Power Factor 0.54 0.51 0.66 0.64 Max. compression : 1414 lb 0.46 0.42 0.60 0.56 0.69 0.65 0.61 0.56 0.72 0.68 0.77 0.75 0.52 0.65 0.72 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.5 9.5 9.5 9.5 9.5 9.5 P2 (0,5;1,0) 8.0 8.0 8.0 8.0 8.0 8.0 8.0 P3 (0,25;1,0) 7.7 7.7 7.7 7.7 7.7 7.7 7.7 P4 (0,9;0,5) Losses (%) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 P5 (0,5;0,5) 3.7 3.7 3.7 3.7 3.7 3.7 3.7 P6 (0,5;0,25) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 P7 2.0 2.0 2.0 2.0 2.0 2.0 2.0 (0,25;0,25)Drive end Non drive end Bearing type 6312 C3 6212 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 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	28/03/2024			1/1	