DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Multimounting High Efficiency Three-Phase Product code: 13958123 Catalog #: .3712EP3EAL80-W22 Frame : 80 Locked rotor time : 28s (cold) 16s (hot) Output : 0.5 HP (0.37 kW) Temperature rise : 80 K Poles Duty cycle : S1 : 6 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 2.14/1.07 A : IP55 : IC411 - TEFC L. R. Amperes : 10.7/5.35 A Cooling method **LRC** Mounting : 5.0 : B3L(E) : Both (CW and CCW) No load current : 1.52/0.760 A Rotation¹ Rated speed : 1145 rpm Noise level² : 47.0 dB(A) Slip : 4.58 % Starting method : Direct On Line Rated torque : 2.29 ft.lb Approx. weight3 : 24.3 lb Locked rotor torque : 270 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.0570 sq.ft.lb Design : N Output 25% 50% 75% 100% Foundation loads Efficiency (%) 0.000 57.0 64.0 63.0 68.5 64.0 70.0 Max. traction : 55 lb 0.000 61.0 67.0 70.0 0.000 Power Factor 0.00 0.00 0.48 0.48 0.60 0.63 0.68 0.69 Max. compression : 80 lb 0.00 0.40 0.58 0.62 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 51.0 38.9 P2 (0,5;1,0) 43.4 33.0 33.0 P3 (0,25;1,0) 51.4 39.1 39.1 Losses (%) P4 (0,9;0,5) 36.9 28.1 28.1 P5 (0,5;0,5) 28.1 21.4 21.4 P6 (0,5;0,25) 25.8 19.7 19.7 P7 (0,25;0,25) 19.3 14.7 14.7 Drive end Non drive end Bearing type 6204 ZZ 6203 ZZ Sealing Oil Seal Oil Seal Lubrication interval 0 h 0 h Lubricant amount 0 g 0 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	26/03/2024			1/1	