DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11447438 Three-Phase : 182/4T Locked rotor time Frame : 55s (cold) 31s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 460 V Altitude : 1000 m.a.s.l. Rated current Protection degree : IP56 : 3.22 A L. R. Amperes : 24.2 A Cooling method : IC411 - TEFC **LRC** : 7.5x(Code L) Mounting : F-1 : Both (CW and CCW) : 1.90 A No load current Rotation¹ Rated speed : 1170 rpm Noise level² : 52.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 8.98 ft.lb Approx. weight³ : 107 lb Locked rotor torque : 300 % Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.6210 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 85.4 84.8 86.5 85.5 87.5 86.0 88.5 86.5 Max. traction : 183 lb 84.8 84.2 85.5 85.0 86.5 86.5 87.0 87.0 Power Factor 0.26 0.31 0.46 0.53 0.58 0.65 0.66 0.72 Max. compression : 290 lb 0.28 0.26 0.49 0.46 0.62 0.59 0.69 0.67 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.3 12.3 12.3 12.3 P2 (0,5;1,0) 9.8 9.8 9.8 9.8 P3 (0,25;1,0) 9.2 9.2 9.2 9.2 Losses (%) P4 (0,9;0,5) 7.4 7.4 7.4 7.4 P5 (0,5;0,5) 5.0 5.0 5.0 5.0 P6 (0,5;0,25) 3.9 3.9 3.9 3.9 P7 (0,25;0,25) 2.9 2.9 2.9 2.9 Non drive end Drive end Bearing type 6207 2RS C3 6206 2RS C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval Lubricant amount 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

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Revision