DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11453265 Three-Phase : 213/5T Frame Locked rotor time : 79s (cold) 44s (hot) Output : 3 HP (2.2 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 : 4.61 A L. R. Amperes : 31.3 A Cooling method : IC411 - TEFC **LRC** : 6.8x(Code K) Mounting : F-1 : Both (CW and CCW) : 3.00 A No load current Rotation¹ Rated speed : 870 rpm Noise level² : 52.0 dB(A) Slip : 3.33 % Starting method : Direct On Line Rated torque : 18.1 ft.lb Approx. weight³ : 188 lb Locked rotor torque : 220 % : 300 % Breakdown torque : F Insulation class Service factor : 1.25 Moment of inertia (J) : 2.11 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 83.7 81.6 84.0 82.0 85.5 82.5 85.5 82.5 Max. traction : 276 lb 81.6 82.1 82.0 82.5 82.5 84.0 82.5 84.0 Power Factor 0.27 0.32 0.49 0.55 0.62 0.68 0.70 0.74 Max. compression : 464 lb 0.30 0.28 0.51 0.50 0.64 0.63 0.71 0.71 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 19.1 24.0 24.0 21.5 P2 (0,5;1,0) 18.2 23.0 23.0 20.6 P3 (0,25;1,0) 17.9 22.9 22.9 20.4 Losses (%) P4 (0,9;0,5) 9.5 12.1 12.1 10.7 P5 (0,5;0,5) 7.8 10.0 10.0 8.9 P6 (0,5;0,25) 5.8 7.6 7.6 6.6 P7 (0,25;0,25) 4.5 5.9 5.9 5.2 Drive end Non drive end 6308 2RS C3 Bearing type 6207 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 Checked by Page Revision

1/1

25/03/2024

Date