DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11447389 Three-Phase : 213/5T Locked rotor time Frame : 102s (cold) 57s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 5.46 A Protection degree : IP56 : IC411 - TEFC L. R. Amperes : 37.2 A Cooling method Mounting **LRC** : 6.8x(Code J) : F-1 : Both (CW and CCW) No load current : 2.76 A Rotation¹ Rated speed : 1170 rpm Noise level² : 55.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 22.4 ft.lb Approx. weight³ : 179 lb Locked rotor torque : 170 % Breakdown torque : 260 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 1.47 sq.ft.lb Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 88.2 88.5 89.5 89.5 Max. traction : 239 lb Power Factor 0.34 0.58 0.70 0.76 Max. compression : 418 lb Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 11.1 9.1 8.8 5.8 4.0 2.9 2.1 Drive end Non drive end 6308 2RS C3 6207 2RS C3 Bearing type Sealing Inpro/Seal Inpro/Seal 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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

1/1

25/03/2024

Date