DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 13556811 Three-Phase Catalog #: 00509ST3HIE254T-W22 Frame : 254/6T Locked rotor time : 77s (cold) 43s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 575 V Altitude Rated current : 6.15 A Protection degree : IP56 L. R. Amperes : 32.6 A Cooling method : IC411 - TEFC **LRC** : 5.3x(Code H) Mounting : F-1 No load current : 4.32 A Rotation¹ : Both (CW and CCW) Rated speed : 883 rpm Noise level² : 54.0 dB(A) Starting method Slip : 1.89 % : Direct On Line Rated torque : 29.7 ft.lb Approx. weight3 : 260 lb : 250 % Locked rotor torque Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.41 sq.ft.lb Design : B 25% 75% 100% Output 50% Foundation loads Efficiency (%) 84.0 84.7 87.0 87.5 Max. traction : 269 lb Power Factor 0.26 0.48 0.61 0.69 Max. compression : 529 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) 13.7 11.9 12.0 7.8 5.9 4.6 3.6 Drive end Non drive end 6309 C3 6209 C3 Bearing type Inpro/Seal Sealing Inpro/Seal Lubrication interval 20000 h 20000 h Lubricant amount 13 q 9 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

1/1

25/03/2024

Date