## **DATA SHEET**

Date

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11432631 Three-Phase Catalog #: 00536ST3HIE184T-W22 Frame : 182/4T Locked rotor time : 45s (cold) 25s (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 : 4.72 A Protection degree : IP56 L. R. Amperes : 35.9 A Cooling method : IC411 - TEFC LRC : 7.6x(Code J) Mounting : F-1 No load current : 1.60 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3485 rpm Noise level<sup>2</sup> : 66.0 dB(A) Starting method Slip : 3.19 % : Direct On Line Rated torque : 7.53 ft.lb Approx. weight3 : 104 lb Locked rotor torque : 229 % Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.2233 sq.ft.lb Design : B 25% 75% 100% Output 50% Foundation loads Efficiency (%) 86.1 86.5 88.5 88.5 Max. traction : 116 lb Power Factor 0.51 0.76 0.85 0.89 Max. compression : 220 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) P6 (0,5;0,25) P1 (0,9;1,0) P5 (0,5;0,5) P7 (0,25;0,25) 9.9 12.4 8.9 6.2 3.7 2.3 1.4 Non drive end Drive end 6207 C3 6206 C3 Bearing type Inpro/Seal Inpro/Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 7 q 5 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 25/03/2024 1/1