## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11457542 : 182T Locked rotor time Frame : 73s (cold) 41s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current : 2.90 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 25.0 A Cooling method Mounting **LRC** : 8.6x(Code K) : F-1 : Both (CW and CCW) No load current : 1.04 A Rotation<sup>1</sup> Rated speed : 3510 rpm Noise level<sup>2</sup> : 66.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 4.49 ft.lb Approx. weight<sup>3</sup> : 91.3 lb Locked rotor torque : 250 % Breakdown torque : 380 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.1889 sq.ft.lb Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 82.0 82.5 86.5 86.5 Max. traction : 63 lb Power Factor 0.50 0.75 0.84 0.88 Max. compression : 154 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) 14.1 9.5 8.5 8.7 4.4 3.3 1.7 Drive end Non drive end Bearing type 6207 ZZ 6206 ZZ Sealing V'Ring V'Ring 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

28/03/2024

Date