## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 14013943 : 213TC Locked rotor time Frame : 41s (cold) 23s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 380 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 7.47 A : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 63.5 A **LRC** : 8.5x(Code K) Mounting : F-3 : Both (CW and CCW) No load current : 3.10 A Rotation<sup>1</sup> Rated speed : 2950 rpm Noise level<sup>2</sup> : 63.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 121 lb : 8.90 ft.lb Approx. weight<sup>3</sup> Locked rotor torque : 240 % Breakdown torque : 350 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.4214 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 85.5 87.5 88.5 Max. traction : 115 lb Max. compression Power Factor 0.67 0.78 0.85 : 236 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) 12.3 9.5 8.4 7.2 4.3 3.2 2.1 Drive end Non drive end Bearing type 6308 ZZ 6207 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. Rev Changes Summary Performed

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Performed by						
Checked by				Page	Revision	
Date	28/03/2024			1/1		
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