## **DATA SHEET**

(4) At 100% of full load.



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11807568 Locked rotor time Frame : 326TS : 36s (cold) 20s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. : 112/56.1 A Protection degree : IP55 Rated current L. R. Amperes : 707/353 A Cooling method : IC411 - TEFC LRC : 6.3x(Code G) Mounting : F-3 : Both (CW and CCW) No load current : 28.0/14.0 A Rotation<sup>1</sup> Rated speed : 3560 rpm Noise level<sup>2</sup> : 76.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 73.8 ft.lb Approx. weight<sup>3</sup> : 573 lb Locked rotor torque : 240 % : 240 % Breakdown torque : F Insulation class Service factor : 1.25 Moment of inertia (J) : 5.75 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 92.9 92.6 93.0 92.8 93.0 92.9 93.0 93.0 Max. traction : 464 lb 91.6 91.9 92.2 92.2 92.8 93.1 93.3 93.3 94.2 93.6 93.0 93.0 92.4 92.4 91.0 91.7 93.0 93.0 Power Factor 0.58 0.58 0.81 0.80 0.87 0.87 0.89 0.89 Max. compression : 1036 lb 0.55 0.52 0.77 0.76 0.86 0.84 0.88 0.87 0.65 0.62 0.85 0.83 0.88 0.88 0.89 0.89 0.82 0.87 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.5 6.5 9.0 8.2 7.5 P2 (0,5;1,0) 4.4 4.4 4.2 4.2 5.7 5.3 4.8 P3 (0,25;1,0) 3.5 3.5 3.3 3.3 4.6 4.2 3.8 P4 (0,9;0,5) Losses (%) 4.1 4.1 3.9 3.9 5.4 5.0 4.5 P5 (0,5;0,5) 2.0 2.0 1.9 1.9 2.7 2.5 2.2 P6 (0,5;0,25) 1.5 1.5 1.4 1.4 2.0 1.8 1.6 P7 0.7 0.7 0.7 0.7 1.0 0.9 0.8 (0,25;0,25)Drive end Non drive end Bearing type 6312 C3 6212 C3 V'Ring Sealing V'Ring 15000 h Lubrication interval 12000 h Lubricant amount 21 g 13 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.

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## DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

## Thermal protection

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ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/03/2024			2/2	