## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 High Efficiency Three-Phase Product code: 12823188 Frame : 213TC : 23s (cold) 13s (hot) Locked rotor time Output Temperature rise : 7.5 HP (5.5 kW) : 80 K Poles Duty cycle : Cont.(S1) : 4 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Rated current : 18.6/9.29 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 121/60.4 A **LRC** : 6.5x(Code H) Mounting : W-6 No load current : 8.00/4.00 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1765 rpm Noise level<sup>2</sup> : 58.0 dB(A) Slip : 1.94 % Starting method : Direct On Line Rated torque : 22.3 ft.lb Approx. weight3 : 145 lb Locked rotor torque : 210 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.9800 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 88.3 88.3 88.5 88.5 89.5 87.5 89.5 87.5 Max. traction : 293 lb 89.2 87.3 88.5 87.5 88.5 87.5 87.5 87.5 Power Factor 0.41 0.48 0.66 0.73 0.77 0.82 0.83 0.86 Max. compression : 437 lb 0.43 0.40 0.69 0.65 0.80 0.77 0.85 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.4 13.9 13.9 13.9 P2 (0,5;1,0) 9.9 12.0 12.0 12.0 P3 (0,25;1,0) 9.6 11.6 11.6 11.6 Losses (%) P4 (0,9;0,5) 5.7 7.0 7.0 7.0 P5 (0,5;0,5) 4.0 4.9 4.9 4.9 3.4 3.4 P6 (0,5;0,25) 2.8 3.4 P7 (0,25;0,25) 2.4 2.0 2.4 2.4 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 must be eliminated.

- (1) Looking the motor from the shaft end.
- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/03/2024			1/1	