## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 High Efficiency Three-Phase Product code: 12822433 Frame : 25s (cold) 14s (hot) : 145TC Locked rotor time Output Temperature rise : 1.5 HP (1.1 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 : 4.50/2.25 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 40.5/20.3 A LRC : 9.0x(Code M) Mounting : W-6 No load current : 3.08/1.54 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1765 rpm Noise level<sup>2</sup> : 51.0 dB(A) Slip : 1.94 % Starting method : Direct On Line Rated torque : 4.46 ft.lb Approx. weight3 : 50.7 lb Locked rotor torque : 250 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1172 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 78.5 83.2 80.0 82.5 82.5 82.5 84.0 81.5 Max. traction : 101 lb 81.2 81.2 81.5 81.5 82.5 82.5 82.5 82.5 Power Factor 0.29 0.34 0.53 0.60 0.65 0.70 0.73 0.77 Max. compression : 152 lb 0.31 0.30 0.55 0.55 0.69 0.66 0.75 0.73 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 17.8 21.2 19.8 19.8 P2 (0,5;1,0) 14.9 17.7 16.6 16.6 P3 (0,25;1,0) 15.6 18.6 17.3 17.3 Losses (%) P4 (0,9;0,5) 11.5 13.7 12.8 12.8 P5 (0,5;0,5) 8.4 9.4 9.4 10.0 7.2 8.0 P6 (0,5;0,25) 8.6 8.0 P7 (0,25;0,25) 5.5 6.5 6.1 6.1 Drive end Non drive end Bearing type 6205 ZZ 6204 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.

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	28/03/2024			1/1	