DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 High Efficiency Three-Phase Product code: 12822485 Frame : 254TC : 32s (cold) 18s (hot) Locked rotor time Output Temperature rise : 15 HP (11 kW) : 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. Rated current : 34.8/17.4 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 216/108 A LRC : 6.2x(Code G) Mounting : W-6 No load current : 9.20/4.60 A Rotation¹ : Both (CW and CCW) Rated speed : 3525 rpm Noise level² : 72.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 22.3 ft.lb Approx. weight3 : 253 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.26 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 89.3 90.9 89.5 90.2 90.2 89.5 90.2 88.5 Max. traction : 184 lb 90.6 90.6 90.2 90.2 90.2 90.2 89.5 89.5 Power Factor 0.56 0.63 0.78 0.84 0.86 0.89 0.88 0.90 Max. compression : 437 lb $0.59\ 0.57\ 0.82\ 0.80\ 0.88\ 0.87\ 0.90\ 0.89$ Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.3 12.3 11.1 <u>11.1</u> P2 (0,5;1,0) 8.3 9.9 8.9 8.9 P3 (0,25;1,0) 7.6 9.0 8.2 8.2 Losses (%) P4 (0,9;0,5) 5.1 6.1 5.5 5.5 P5 (0,5;0,5) 3.0 3.2 3.2 3.6 2.0 P6 (0,5;0,25) 1.8 2.2 2.0 P7 (0,25;0,25) 1.1 1.3 1.2 1.2 Drive end Non drive end Bearing type 6309 C3 6209 C3 V'Ring Sealing V'Ring 11000 h

Lubrication interval 9000 h Lubricant amount 13 g 9 g

Notes:

Lubricant type

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	28/03/2024			1/1	

Mobil Polyrex EM