DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 High Efficiency Three-Phase Product code: 12822572 Frame : 145TC : 28s (cold) 16s (hot) Locked rotor time Output Temperature rise : 2 HP (1.5 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 : 5.28/2.64 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 39.1/19.5 A **LRC** : 7.4x(Code J) Mounting : W-6 No load current : 2.10/1.05 A Rotation¹ : Both (CW and CCW) Rated speed : 3450 rpm Noise level² : 68.0 dB(A) Slip : 4.17 % Starting method : Direct On Line Rated torque : 3.04 ft.lb Approx. weight3 : 50.5 lb Locked rotor torque : 250 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0427 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 81.0 79.1 81.5 78.5 84.0 81.5 84.0 80.0 Max. traction : 65 lb 79.5 79.5 80.0 80.0 81.5 81.5 81.5 81.5 Power Factor 0.44 0.50 0.69 0.73 0.80 0.82 0.85 0.87 Max. compression : 115 lb 0.46 0.43 0.69 0.68 0.79 0.78 0.85 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 18.3 24.0 21.8 21.8 P2 (0,5;1,0) 15.1 19.8 18.0 18.0 P3 (0,25;1,0) 13.4 17.6 16.0 16.0 Losses (%) P4 (0,9;0,5) 9.1 11.9 10.8 10.8 P5 (0,5;0,5) 5.7 6.8 6.8 7.4 4.4 4.4 P6 (0,5;0,25) 3.7 4.8 P7 (0,25;0,25) 2.9 2.4 3.2 2.9 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.

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