DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 High Efficiency Three-Phase Product code: 12822574 : 286TSC Frame Locked rotor time : 25s (cold) 14s (hot) Output : 30 HP (22 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. Rated current : 67.4/33.7 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 438/219 A LRC : 6.5x(Code G) Mounting : W-6 No load current : 16.0/8.00 A Rotation¹ : Both (CW and CCW) Rated speed : 3540 rpm Noise level² : 72.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 44.5 ft.lb Approx. weight3 : 378 lb Locked rotor torque : 200 % Breakdown torque : 240 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 2.83 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 90.9 86.0 91.0 85.5 91.0 87.5 91.0 86.5 Max. traction : 302 lb 87.0 88.0 86.5 87.5 88.5 89.5 87.5 88.5 Power Factor 0.60 0.66 0.82 0.85 0.88 0.87 0.90 0.88 Max. compression : 680 lb 0.63 0.61 0.84 0.82 0.86 0.86 0.87 0.87 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.5 15.0 13.7 12.5 P2 (0,5;1,0) 7.9 12.5 11.5 10.4 P3 (0,25;1,0) 7.4 11.6 10.6 9.7 Losses (%) P4 (0,9;0,5) 4.3 6.7 6.1 5.6 P5 (0,5;0,5) 2.7 3.9 3.5 4.3 2.2 2.0 P6 (0,5;0,25) 1.5 2.4 P7 (0,25;0,25) 1.0 1.5 1.4 1.3 Drive end Non drive end Bearing type 6311 C3 6211 C3 V'Ring Sealing V'Ring Lubrication interval 7000 h 8000 h Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type 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	