DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 High Efficiency Three-Phase Product code: 12822515 : 284TC Frame Locked rotor time : 41s (cold) 23s (hot) Output : 25 HP (18.5 kW) Temperature rise : 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 : 58.4/29.2 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 356/178 A LRC : 6.1x(Code G) Mounting : W-6 No load current : 19.0/9.50 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 64.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 74.2 ft.lb Approx. weight3 : 390 lb Locked rotor torque : 220 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.11 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 91.5 92.8 91.7 91.7 92.4 91.7 92.4 90.2 Max. traction : 626 lb 92.1 92.1 91.7 91.7 91.7 92.4 91.0 91.7 Power Factor 0.49 0.55 0.73 0.78 0.82 0.85 0.86 0.87 Max. compression : 1015 lb 0.51 0.49 0.75 0.73 0.83 0.82 0.87 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.6 8.8 8.0 P2 (0,5;1,0) 6.7 8.8 8.0 7.3 P3 (0,25;1,0) 6.0 7.9 7.2 6.6 Losses (%) P4 (0,9;0,5) 3.7 4.8 4.4 4.0 P5 (0,5;0,5) 2.9 2.7 2.4 3.2 P6 (0,5;0,25) 1.5 2.0 1.8 1.6 P7 (0,25;0,25) 1.0 1.3 1.2 1.1 Drive end Non drive end Bearing type 6311 C3 6211 C3 V'Ring Sealing V'Ring Lubrication interval 15000 h 17000 h Lubricant amount 11 g 18 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	