DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11447198 Frame : 182/4T Locked rotor time : 21s (cold) 12s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 460 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 6.49 A : IP56 L. R. Amperes Cooling method : IC411 - TEFC : 50.0 A **LRC** : 7.7x(Code J) Mounting : F-1 : Both (CW and CCW) No load current : 2.90 A Rotation¹ Rated speed : 1750 rpm Noise level² : 56.0 dB(A) Slip : 2.78 % Starting method : Direct On Line Rated torque : 15.0 ft.lb Approx. weight³ : 106 lb Locked rotor torque : 229 % Breakdown torque : 290 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.4003 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 88.2 87.7 88.5 87.5 89.5 88.2 89.5 87.7 Max. traction : 261 lb 86.4 86.2 86.7 86.5 88.2 88.2 88.2 88.2 89.1 88.0 88.5 87.5 87.5 88.5 86.5 87.5 87.5 88.5 0.38 0.38 0.62 0.61 0.74 0.75 0.80 0.81 : 366 lb Power Factor Max. compression $0.34\; 0.31\; 0.57\; 0.53\; 0.71\; 0.67\; 0.79\; 0.76$ 0.45 0.41 0.69 0.65 0.80 0.77 0.84 0.82 0.74 0.80 0.61 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.3 13.6 12.9 12.9 15.1 13.8 13.8 P2 (0,5;1,0) 9.5 11.4 10.9 10.9 12.7 11.6 11.6 P3 (0,25;1,0) 8.7 10.4 10.0 10.0 11.6 10.6 10.6 P4 (0,9;0,5) Losses (%) 5.5 6.5 6.2 6.2 7.3 6.7 6.7 P5 (0,5;0,5) 3.8 4.5 4.3 4.3 5.0 4.6 4.6 P6 (0,5;0,25) 2.5 3.0 2.9 2.9 3.4 3.1 3.1 P7 1.8 2.2 2.1 2.1 2.4 2.2 2.2 (0,25;0,25)Drive end Non drive end Bearing type 6207 2RS C3 6206 2RS C3 Sealing Inpro/Seal Inpro/Seal Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Notes: This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1.

- (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.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	25/03/2024			1/1	