DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12445724 Catalog #: 00318ET3E182TC-W22 Frame : 182/4TC Locked rotor time : 41s (cold) 23s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. : IP55 Rated current : 7.82/3.91 A Protection degree L. R. Amperes Cooling method : IC411 - TEFC : 63.3/31.7 A LRC : 8.1x(Code K) Mounting : F-1 No load current : 4.00/2.00 A Rotation¹ : Both (CW and CCW) Rated speed : 1760 rpm Noise level² : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 8.95 ft.lb Approx. weight³ : 90.5 lb Locked rotor torque : 220 % Breakdown torque : 330 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.3401 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 86.4 87.2 87.5 87.5 88.5 87.5 89.5 87.5 Max. traction : 176 lb 87.3 87.3 87.5 87.5 87.5 87.5 87.5 87.5 Power Factor 0.36 0.43 0.61 0.68 0.71 0.77 0.79 0.80 : 266 lb Max. compression 0.39 0.36 0.64 0.61 0.75 0.73 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.0 13.4 13.4 13.4 P2 (0,5;1,0) 8.9 10.8 10.8 10.8 P3 (0,25;1,0) 8.8 10.7 10.7 10.7 Losses (%) P4 (0,9;0,5) 6.1 7.4 7.4 7.4 P5 (0,5;0,5) 4.0 4.9 4.9 4.9 P6 (0,5;0,25) 3.0 3.6 3.6 3.6 P7 (0,25;0,25) 2.1 2.6 2.6 2.6 Non drive end **Drive end** Bearing type 6207 ZZ 6206 ZZ V'Ring Sealing V'Ring 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	28/03/2024			1/1	