DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12445706 Catalog #: 00156ET3E143TC-W22 Frame : 143/5TC Locked rotor time : 37s (cold) 21s (hot) Output : 1.5 HP (1.1 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 230/460 V : 1000 m.a.s.l. Rated voltage Altitude Rated current : 3.92/1.96 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 34.9/17.4 A LRC : 8.9x(Code L) Mounting : F-1 No load current : 1.66/0.830 A Rotation¹ : Both (CW and CCW) Rated speed : 3480 rpm Noise level² : 68.0 dB(A) Starting method Slip : 3.33 % : Direct On Line Rated torque : 2.26 ft.lb Approx. weight³ : 46.8 lb Locked rotor torque : 310 % : 370 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0470 sq.ft.lb Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 81.1 79.9 81.5 80.5 84.0 83.2 84.0 83.4 Max. traction : 50 lb 78.4 77.9 79.3 78.9 82.8 82.7 83.4 83.4 80.6 81.6 81.0 82.0 81.5 82.5 81.5 82.5 81.7 82.0 82.5 82.5 0.43 0.39 0.68 0.63 0.78 0.74 0.84 0.81 Power Factor Max. compression : 97 lb 0.35 0.33 0.58 0.55 0.71 0.68 0.78 0.76 $0.51\ 0.46\ 0.75\ 0.70\ 0.84\ 0.80\ 0.87\ 0.86$ 0.43 0.67 0.78 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 17.7 17.7 17.7 17.7 17.7 17.7 P2 (0,5;1,0) 13.3 13.3 13.3 13.3 13.3 13.3 13.3 P3 (0,25;1,0) 12.1 12.1 12.1 12.1 12.1 12.1 12.1 P4 (0,9;0,5) Losses (%) 9.8 9.8 9.8 9.8 9.8 9.8 9.8 P5 (0,5;0,5) 5.6 5.6 5.6 5.6 5.6 5.6 5.6 P6 (0,5;0,25) 3.8 3.8 3.8 3.8 3.8 3.8 3.8 P7 2.4 2.4 2.4 2.4 2.4 2.4 2.4 (0,25;0,25)Drive end Non drive end Bearing type 6205 ZZ 6204 ZZ Sealing V'Ring V'Ring Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type 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	26/03/2024				1/1	