DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 16616830 Catalog #: 00156ET3E143T-W22G Frame : 143/5T Locked rotor time : 37s (cold) 21s (hot) Output : 1.5 HP (1.1 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 : 1000 m.a.s.l. Altitude Rated current : 3.92/1.96 A Protection degree : IP55 L. R. Amperes : 34.9/17.4 A Cooling method : IC411 - TEFC 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 : 44.6 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 : 51 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 : 96 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 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.

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Rev.	Changes Summary		Performed	Checked	Date
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Date	28/03/2024	1		1/1	