DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11165997 Catalog #: 15036ET3E445TS-W22 : 444/5TS Frame Locked rotor time : 39s (cold) 22s (hot) Output : 150 HP (110 kW) Temperature rise : 80 K Poles : 2 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Rated current : 326/163 A Protection degree : IP55 L. R. Amperes : 2119/1060 A Cooling method : IC411 - TEFC LRC : 6.5x(Code G) Mounting : F-1 No load current : 82.0/41.0 A Rotation¹ : Both (CW and CCW) Rated speed : 3570 rpm Noise level² : 81.0 dB(A) Slip : 0.83 % Starting method : Direct On Line Rated torque : 221 ft.lb Approx. weight³ : 1741 lb Locked rotor torque : 180 % Breakdown torque : 240 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 39.1 sq.ft.lb Design : B Output 50% 75% 100% Foundation loads Efficiency (%) 94.1 93.7 95.0 94.4 95.0 95.0 Max. traction : 758 lb 94.9 94.9 95.0 95.0 94.1 94.1 94.1 94.5 94.5 95.0 94.1 94.5 94.5 95.0 94.5 Power Factor 0.89 0.89 0.83 0.81 0.88 0.88 Max. compression : 2499 lb 0.79 0.77 0.88 0.87 0.89 0.89 0.86 0.84 0.89 0.89 0.89 0.89 0.83 0.88 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.3 5.3 5.3 5.3 5.3 5.3 P2 (0,5;1,0) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 P3 (0,25;1,0) 2.9 2.9 2.9 2.9 2.9 2.9 2.9 P4 (0,9;0,5) Losses (%) 3.3 3.3 3.3 3.3 3.3 3.3 3.3 P5 (0,5;0,5) 1.7 1.7 1.7 1.7 1.7 1.7 1.7 P6 (0,5;0,25) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 P7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 (0,25;0,25)Drive end Non drive end Bearing type 6314 C3 6314 C3 Sealing WSeal **WSeal** Lubrication interval 4000 h 4000 h Lubricant amount 27 g 27 g 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	28/03/2024			1/1	