DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11546903 Catalog #: 20018ET3G447TS-W22 Frame Locked rotor time : 28s (cold) 16s (hot) : 445/7TS Output : 200 HP (150 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 230 A Protection degree : IP55 : 1564 A L. R. Amperes Cooling method : IC411 - TEFC LRC : 6.8x(Code G) Mounting : F-1 No load current : 70.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1785 rpm Noise level² : 73.0 dB(A) Starting method Slip : 0.83 % : Direct On Line Rated torque : 588 ft.lb Approx. weight³ : 2252 lb : 229 % Locked rotor torque Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 76.2 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 95.7 94.3 95.8 94.5 96.2 95.0 96.2 95.0 Max. traction : 3414 lb 94.9 94.9 95.0 95.0 95.4 95.4 95.4 95.4 Power Factor 0.50 0.56 0.73 0.78 0.82 0.85 0.85 0.86 Max. compression : 5666 lb 0.53 0.50 0.76 0.73 0.84 0.82 0.86 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.0 4.0 4.0 4.0 P2 (0,5;1,0) 3.2 3.2 3.2 3.2 P3 (0,25;1,0) 2.9 2.9 2.9 2.9 Losses (%) P4 (0,9;0,5) 2.0 2.0 2.0 2.0 P5 (0,5;0,5) 1.3 1.3 1.3 1.3 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 P7 (0,25;0,25) 0.5 0.5 0.5 0.5 Non drive end **Drive end** 6314 C3 Bearing type 6314 C3 WSeal WSeal Sealing 12000 h 12000 h Lubrication interval Lubricant amount 27 g 27 g 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	