DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11356741 Catalog #: 30012ET3G449T-W22 : 447/9T Frame Locked rotor time : 18s (cold) 10s (hot) Output : 300 HP (220 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 460 V Altitude : 1000 m.a.s.l. Rated current : 356 A Protection degree : IP55 L. R. Amperes : 2741 A Cooling method : IC411 - TEFC LRC : 7.7x(Code J) Mounting : F-1 No load current : 170 A Rotation¹ : Both (CW and CCW) Rated speed : 1189 rpm Noise level² : 70.0 dB(A) Slip : 0.92 % Starting method : Direct On Line Rated torque : 1320 ft.lb Approx. weight³ : 3052 lb : 270 % Locked rotor torque Breakdown torque : 300 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 145 sq.ft.lb Design : A 50% Output 25% 75% 100% Foundation loads Efficiency (%) 95.3 94.5 95.4 95.0 95.8 95.4 95.8 95.8 Max. traction : 8726 lb 94.0 93.3 94.5 94.1 95.4 95.0 95.8 95.8 Power Factor 0.38 0.37 0.63 0.61 0.75 0.75 0.81 0.81 Max. compression : 11778 lb 0.35 0.32 0.59 0.56 0.71 0.69 0.78 0.77 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.2 5.2 5.2 5.2 P2 (0,5;1,0) 4.3 4.3 4.3 4.3 P3 (0,25;1,0) 3.7 3.7 3.7 3.7 Losses (%) P4 (0,9;0,5) 3.0 3.0 3.0 3.0 P5 (0,5;0,5) 2.3 2.3 2.3 2.3 P6 (0,5;0,25) 1.8 1.8 1.8 1.8 P7 (0,25;0,25) 1.1 1.1 1.1 1.1 Non drive end **Drive end** Bearing type 6322 C3 6319 C3 Sealing WSeal WSeal 11000 h 13000 h Lubrication interval Lubricant amount 60 g 45 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	