DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11408911 Catalog #: 45018ET3GRB449T-W22 : L447/9T Frame Locked rotor time : 39s (cold) 22s (hot) Output : 450 HP (330 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. : 513 A Rated current Protection degree : IP55 L. R. Amperes : 4566 A Cooling method : IC411 - TEFC LRC : 8.9x(Code K) Mounting : F-1 No load current : 215 A Rotation¹ : Both (CW and CCW) Rated speed : 1791 rpm Noise level² : 79.0 dB(A) Slip : 0.50 % Starting method : Direct On Line Rated torque : 1320 ft.lb Approx. weight³ : 3496 lb : 320 % Locked rotor torque Breakdown torque : 330 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 152 sq.ft.lb Design : A Output 25% 50% 75% 100% Foundation loads Efficiency (%) 95.3 95.7 95.4 95.8 96.2 96.2 96.2 96.2 Max. traction : 11406 lb 95.0 95.0 95.4 95.4 95.8 95.8 96.2 96.2 Power Factor 0.41 0.45 0.66 0.70 0.78 0.80 0.84 0.84 Max. compression : 14902 lb 0.40 0.36 0.65 0.60 0.77 0.74 0.82 0.80 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.5 4.5 4.5 4.5 P2 (0,5;1,0) 3.3 3.3 3.3 3.3 P3 (0,25;1,0) 2.7 2.7 2.7 2.7 Losses (%) P4 (0,9;0,5) 2.5 2.5 2.5 2.5 P5 (0,5;0,5) 1.5 1.5 1.5 1.5 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.6 0.6 0.6 0.6 Drive end Non drive end Bearing type NU-322 C3 6319 C3 Sealing WSeal WSeal 4000 h 8000 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	