DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11432183 Three-Phase Catalog #: 25012ST3QIE449T-W22 Frame : 447/9T Locked rotor time : 21s (cold) 12s (hot) Output : 250 HP (185 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 460 V : 1000 m.a.s.l. Rated voltage Altitude Rated current : 292 A Protection degree : IP56 L. R. Amperes Cooling method : IC411 - TEFC : 1781 A LRC : 6.1x(Code G) Mounting : F-1 No load current : 120 A Rotation¹ : Both (CW and CCW) Rated speed : 1185 rpm Noise level² : 70.0 dB(A) Slip : 1.25 % Starting method : Direct On Line Rated torque : 1110 ft.lb Approx. weight³ : 2989 lb : 240 % Locked rotor torque : 240 % Breakdown torque Insulation class : F Service factor : 1.15 Moment of inertia (J) : 145 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 94.5 94.6 95.0 94.8 95.4 95.5 95.8 95.5 Max. traction : 6678 lb 94.5 94.4 94.7 94.6 95.5 95.5 95.5 95.5 94.9 94.3 95.0 94.5 94.5 94.5 94.5 94.5 94.3 94.5 95.0 95.0 0.43 0.42 0.68 0.68 0.79 0.79 0.83 0.84 Power Factor Max. compression : 9667 lb 0.40 0.36 0.65 0.61 0.77 0.74 0.81 0.80 0.49 0.46 0.74 0.71 0.83 0.81 0.85 0.84 0.43 0.68 0.79 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 4.8 4.8 4.8 4.8 4.8 4.8 P2 (0,5;1,0) 4.2 4.2 4.2 4.2 4.2 4.2 4.2 P3 (0,25;1,0) 3.9 3.9 3.9 3.9 3.9 3.9 3.9 P4 (0,9;0,5) Losses (%) 2.3 2.3 2.3 2.3 2.3 2.3 2.3 P5 (0,5;0,5) 1.7 1.7 1.7 1.7 1.7 1.7 1.7 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 (0,25;0,25)Drive end Non drive end Bearing type 6322 C3 6319 C3 Sealing Inpro/Seal Inpro/Seal 13000 h Lubrication interval 11000 h Lubricant amount 60 g 45 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	25/03/2024			1/1	