DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 14325713 Three-Phase Catalog #: 25012ST3QIERB449T-W2 : 447/9T Locked rotor time Frame : 21s (cold) 12s (hot) Output : 250 HP (185 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. : IP55 Rated current : 292 A Protection degree 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 : 2538 lb Locked rotor torque : 240 % : 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 : 6903 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 Power Factor 0.43 0.42 0.68 0.68 0.79 0.79 0.83 0.84 Max. compression : 9441 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 NU-322 C3 6319 C3 Sealing Inpro/Seal Inpro/Seal 13000 h Lubrication interval 7000 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.

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	25/03/2024			1/1	