DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11709501 Three-Phase Catalog #: 07512ST3QIERB405T-W2 Frame : 404/5T Locked rotor time : 30s (cold) 17s (hot) Output : 75 HP (55 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 : 84.9 A Protection degree : IP56 L. R. Amperes : 544 A Cooling method : IC411 - TEFC LRC : 6.4x(Code G) Mounting : F-1 No load current : 28.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1184 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.33 % : Direct On Line Rated torque : 333 ft.lb Approx. weight3 : 1195 lb Locked rotor torque : 220 % Breakdown torque : 229 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 40.2 sq.ft.lb Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 94.0 89.1 94.1 90.6 94.5 91.7 94.5 93.3 Max. traction : 2051 lb 90.1 90.0 91.1 91.0 92.3 92.3 93.3 93.3 91.4 92.0 91.8 92.4 92.2 92.8 92.4 93.0 92.1 92.4 92.8 93.0 0.50 0.43 0.74 0.66 0.83 0.79 0.86 0.84 Power Factor Max. compression : 3246 lb 0.39 0.37 0.62 0.60 0.75 0.74 0.83 0.81 $0.56\; 0.52\; 0.79\; 0.76\; 0.85\; 0.84\; 0.87\; 0.86$ 0.50 0.74 0.83 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 5.6 6.9 6.9 6.9 P2 (0,5;1,0) 4.7 5.8 5.8 5.8 6.7 6.1 6.1 P3 (0,25;1,0) 4.6 5.7 5.7 5.7 6.5 5.9 5.9 P4 (0,9;0,5) Losses (%) 2.5 3.0 3.0 3.0 3.5 3.2 3.2 P5 (0,5;0,5) 1.7 2.1 2.1 2.1 2.4 2.2 2.2 P6 (0,5;0,25) 1.0 1.3 1.3 1.3 1.5 1.3 1.3 P7 0.7 0.9 0.9 0.9 1.0 0.9 0.9 (0,25;0,25)Drive end Non drive end Bearing type NU-316 C3 6314 C3 Inpro/Seal Sealing Inpro/Seal Lubrication interval 17000 h 12000 h Lubricant amount 34 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

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	26/03/2024			1/1	