DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12115182 Three-Phase Catalog #: 25018ST3QIERB449T-W2 Frame : 447/9T Locked rotor time : 27s (cold) 15s (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 Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 281 A Protection degree : IP56 L. R. Amperes : 1827 A Cooling method : IC411 - TEFC LRC : 6.5x(Code G) Mounting : F-1 No load current : 85.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 75.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 738 ft.lb Approx. weight³ : 2845 lb Locked rotor torque : 229 % Breakdown torque : 229 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 89.6 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 95.7 94.8 95.8 95.0 96.2 95.8 96.2 95.8 Max. traction : 4016 lb 95.0 95.0 95.1 95.1 95.8 95.8 95.8 95.8 93.9 94.8 94.1 94.9 94.5 95.0 94.5 95.0 95.6 95.4 95.8 95.4 0.51 0.52 0.75 0.77 0.83 0.84 0.86 0.87 Power Factor Max. compression : 6861 lb 0.49 0.46 0.74 0.72 0.83 0.81 0.86 0.85 0.58 0.54 0.80 0.77 0.86 0.84 0.87 0.87 0.51 0.75 0.83 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 4.2 4.2 4.2 4.2 4.2 4.2 P2 (0,5;1,0) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 P3 (0,25;1,0) 3.2 3.2 3.2 3.2 3.2 3.2 3.2 P4 (0,9;0,5) Losses (%) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 P5 (0,5;0,5) 1.4 1.4 1.4 1.4 1.4 1.4 1.4 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 0.9 0.9 0.9 P7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 (0,25;0,25)Drive end Non drive end Bearing type NU-322 C3 6319 C3 Inpro/Seal Sealing Inpro/Seal 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 fu	III load.					
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by					Page	Revision
Date	25/03/2024	1			1/1	