## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 13148864 Three-Phase Catalog #: 30018ST3QIERB449T-W2 Frame : 447/9T Locked rotor time : 28s (cold) 16s (hot) Output : 300 HP (220 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 : 330 A Protection degree : IP56 L. R. Amperes : 2145 A Cooling method : IC411 - TEFC LRC : 6.5x(Code G) Mounting : F-1 No load current : 95.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1780 rpm Noise level<sup>2</sup> : 75.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 885 ft.lb Approx. weight<sup>3</sup> : 2984 lb : 229 % Locked rotor torque Breakdown torque : 229 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 89.6 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 95.7 95.5 95.8 95.8 96.2 95.8 96.2 96.0 Max. traction : 4871 lb 95.8 94.9 95.8 95.4 96.2 95.8 96.0 96.2 Power Factor 0.53 0.54 0.77 0.78 0.84 0.84 0.87 0.87 Max. compression : 7855 lb  $0.50\ 0.48\ 0.75\ 0.73\ 0.83\ 0.82\ 0.87\ 0.86$ 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 P2 (0,5;1,0) 3.6 3.6 3.6 3.6 P3 (0,25;1,0) 3.3 3.3 3.3 3.3 Losses (%) P4 (0,9;0,5) 2.0 2.0 2.0 2.0 P5 (0,5;0,5) 1.4 1.4 1.4 1.4 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 P7 (0,25;0,25) 0.6 0.6 0.6 0.6 Non drive end Drive end Bearing type NU-322 C3 6319 C3 Inpro/Seal Inpro/Seal Sealing 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	25/03/2024			1/1	