## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11432186 Three-Phase Catalog #: 30018ST3QIE449T-W22 : 447/9T Frame Locked rotor time : 28s (cold) 16s (hot) Output : 300 HP (220 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. Rated current : 330 A Protection degree : IP56 L. R. Amperes Cooling method : IC411 - TEFC : 2145 A 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) Slip : 1.11 % Starting method : Direct On Line Rated torque : 885 ft.lb Approx. weight<sup>3</sup> : 2956 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 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 : 4885 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 : 7841 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 6322 C3 6319 C3 Inpro/Seal Inpro/Seal Sealing 6000 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	