## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 14325511 Three-Phase Catalog #: 00709ST3QIE256TC-W22 Frame : 254/6TC Locked rotor time : 59s (cold) 33s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 460 V Altitude Rated current : 11.1 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 58.8 A LRC : 5.3x(Code G) Mounting : F-1 No load current : 6.50 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 880 rpm Noise level<sup>2</sup> : 54.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 44.8 ft.lb Approx. weight<sup>3</sup> : 284 lb : 200 % Locked rotor torque Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.43 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 85.2 84.0 85.5 84.1 87.5 85.7 87.5 85.5 Max. traction : 453 lb 80.4 80.2 81.6 81.4 84.5 84.5 85.5 85.5 86.6 83.7 85.5 84.0 85.5 85.5 84.0 85.5 83.7 84.0 85.5 85.5 0.29 0.27 0.50 0.47 0.63 0.60 0.71 0.69 Power Factor Max. compression : 737 lb 0.25 0.23 0.44 0.42 0.56 0.54 0.65 0.63 0.34 0.31 0.57 0.53 0.69 0.66 0.76 0.74 0.29 0.51 0.64 0.72 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.8 13.8 13.8 13.8 13.8 13.8 13.8 P2 (0,5;1,0) 11.7 11.7 11.7 11.7 11.7 11.7 11.7 P3 (0,25;1,0) 11.4 11.4 11.4 11.4 11.4 11.4 11.4 P4 (0,9;0,5) Losses (%) 7.8 7.8 7.8 7.8 7.8 7.8 7.8 P5 (0,5;0,5) 5.7 5.7 5.7 5.7 5.7 5.7 5.7 P6 (0,5;0,25) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P7 3.4 3.4 3.4 3.4 3.4 3.4 3.4 (0,25;0,25)Drive end Non drive end Bearing type 6309 C3 6209 C3 Sealing Inpro/Seal Inpro/Seal 20000 h Lubrication interval 20000 h Lubricant amount 13 g 9 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.

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