## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 16689665 Three-Phase Catalog #: 02518ST3QAP284T-W22 Frame : 284/6T Locked rotor time : 43s (cold) 24s (hot) Output : 25 HP (18.5 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 : 29.5 A Protection degree : IP56 L. R. Amperes Cooling method : IC411 - TEFC : 183 A LRC : 6.2x(Code G) Mounting : W-8 No load current : 11.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1770 rpm Noise level<sup>2</sup> : 63.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 74.2 ft.lb Approx. weight<sup>3</sup> : 409 lb : 240 % Locked rotor torque Breakdown torque : 270 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 5.11 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 91.7 92.9 92.4 92.4 93.0 91.7 93.6 91.0 Max. traction : 811 lb 92.8 92.2 92.4 92.4 92.4 92.4 91.7 92.4 Power Factor 0.45 0.52 0.70 0.76 0.80 0.84 0.84 0.86 Max. compression : 1221 lb 0.48 0.45 0.73 0.70 0.82 0.80 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.3 5.3 5.3 5.3 Losses (%) P4 (0,9;0,5) 3.1 3.1 3.1 3.1 P5 (0,5;0,5) 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 1.0 1.0 1.0 1.0 Non drive end Drive end Bearing type NU-311 C3 6211 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 12000 h 17000 h Lubricant amount 18 g 11 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	