## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11569386 Catalog #: 10018ET3E405TS-W22 Frame : 404/5TS Locked rotor time : 23s (cold) 13s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 230/460 V Altitude Rated current : 226/113 A Protection degree : IP55 L. R. Amperes : 1650/825 A Cooling method : IC411 - TEFC LRC : 7.3x(Code H) Mounting : F-1 No load current : 76.0/38.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1780 rpm Noise level<sup>2</sup> : 68.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 295 ft.lb Approx. weight<sup>3</sup> : 1169 lb : 240 % Locked rotor torque Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 29.9 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 0.000 95.0 94.0 95.0 94.4 95.4 95.0 Max. traction : 2087 lb 0.000 93.9 93.6 94.5 94.5 95.0 95.0 94.5 94.5 94.1 94.5 93.6 94.1 94.5 94.5 94.5 Power Factor 0.00 0.00 0.77 0.72 0.84 0.83 0.87 0.86 Max. compression : 3256 lb 0.69 0.66 0.81 0.79 0.85 0.84 0.82 0.79 0.86 0.85 0.88 0.88 0.77 0.84 0.87 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 4.7 4.7 4.7 4.7 4.7 P2 (0,5;1,0) 3.8 3.8 3.8 3.8 3.8 3.8 3.8 P3 (0,25;1,0) 3.7 3.7 3.7 3.7 3.7 3.7 3.7 P4 (0,9;0,5) Losses (%) 2.2 2.2 2.2 2.2 2.2 2.2 2.2 P5 (0,5;0,5) 1.5 1.5 1.5 1.5 1.5 1.5 1.5 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 6314 C3 6314 C3 Sealing WSeal WSeal 12000 h Lubrication interval 12000 h Lubricant amount 27 g 27 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.

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	28/03/2024			1/1	