DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 13062201 Catalog #: 25018ET3Q447TSC-W22 Frame : 447/9TSC Locked rotor time : 27s (cold) 15s (hot) Output : 250 HP (185 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 : 281 A Protection degree : IP55 L. R. Amperes : 1827 A Cooling method : IC411 - TEFC LRC : 6.5x(Code G) Mounting : F-1 No load current : 85.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 75.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 738 ft.lb Approx. weight³ : 2635 lb : 229 % Locked rotor torque : 229 % Breakdown torque 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 94.8 95.8 95.0 96.2 95.8 96.2 95.8 Max. traction : 4121 lb 95.0 95.0 95.1 95.1 95.8 95.8 95.8 95.8 93.9 94.8 94.1 94.9 94.5 95.0 94.5 95.0 95.6 95.4 95.8 95.4 0.51 0.52 0.75 0.77 0.83 0.84 0.86 0.87 Power Factor Max. compression : 6756 lb 0.49 0.46 0.74 0.72 0.83 0.81 0.86 0.85 0.58 0.54 0.80 0.77 0.86 0.84 0.87 0.87 0.51 0.75 0.83 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 4.2 P2 (0,5;1,0) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 P3 (0,25;1,0) 3.2 3.2 3.2 3.2 3.2 3.2 3.2 P4 (0,9;0,5) Losses (%) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 P5 (0,5;0,5) 1.4 1.4 1.4 1.4 1.4 1.4 1.4 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.

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