DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11165648 Catalog #: 05012ET3E365T-W22 Frame : 364/5T Locked rotor time : 32s (cold) 18s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 115/57.4 A Protection degree : IP55 L. R. Amperes : 735/367 A Cooling method : IC411 - TEFC LRC : 6.4x(Code G) Mounting : F-1 No load current : 40.0/20.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1183 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.42 % : Direct On Line Rated torque : 222 ft.lb Approx. weight³ : 904 lb Locked rotor torque : 200 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 32.4 sq.ft.lb Design : B 50% 75% 100% Foundation loads Output Efficiency (%) 93.6 92.7 94.1 92.8 94.1 92.9 Max. traction : 1657 lb 92.7 92.6 93.1 93.1 92.9 92.9 93.0 93.0 92.4 93.0 91.7 92.4 93.0 93.0 92.4 0.74 0.72 0.86 0.85 Power Factor 0.83 0.82 Max. compression : 2562 lb 0.70 0.66 0.80 0.79 0.84 0.84 0.77 0.75 0.84 0.83 0.86 0.86 0.74 0.82 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 6.2 6.2 6.2 6.2 6.2 6.2 P2 (0,5;1,0) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 P3 (0,25;1,0) 4.6 4.6 4.6 4.6 4.6 4.6 4.6 P4 (0,9;0,5) Losses (%) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 (0,25;0,25)Drive end Non drive end Bearing type 6314 C3 6314 C3 WSeal Sealing WSeal 17000 h 17000 h Lubrication interval Lubricant amount 27 g 27 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

(4) / (100 / 00) 10	iii load.				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/03/2024			1/1	