## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12821974 Catalog #: 00312ET3ER213TC-W22 : 213TC Frame Locked rotor time : 104s (cold) 58s (hot) Output : 3 HP (2.2 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 Altitude : 1000 m.a.s.l. : IP55 Rated current : 8.83/4.41 A Protection degree L. R. Amperes Cooling method : IC411 - TEFC : 61.8/30.9 A LRC : 7.0x(Code K) Mounting : W-6 No load current : 5.50/2.75 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1175 rpm Noise level<sup>2</sup> : 55.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 13.4 ft.lb Approx. weight<sup>3</sup> : 152 lb : 200 % Locked rotor torque Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.20 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 85.4 88.0 86.5 87.5 88.5 88.5 89.5 87.5 Max. traction : 171 lb 86.1 86.1 86.5 86.5 88.5 88.5 88.5 88.5 Power Factor 0.28 0.33 0.50 0.57 0.63 0.70 0.70 0.75 : 323 lb Max. compression 0.30 0.28 0.53 0.50 0.66 0.64 0.73 0.71 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.0 11.0 11.0 11.0 P2 (0,5;1,0) 8.5 8.5 8.5 8.5 P3 (0,25;1,0) 7.7 7.7 7.7 7.7 Losses (%) P4 (0,9;0,5) 6.7 6.7 6.7 6.7 P5 (0,5;0,5) 4.4 4.4 4.4 4.4 P6 (0,5;0,25) 3.4 3.4 3.4 3.4 P7 (0,25;0,25) 2.5 2.5 2.5 2.5 Non drive end **Drive end** Bearing type 6308 ZZ 6207 ZZ Sealing V'Ring V'Ring Lubrication interval Lubricant amount 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	28/03/2024			1/1	