## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11441772 Catalog #: 02012ET3E286T-W22 Frame : 284/6T Locked rotor time : 28s (cold) 16s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles : 6 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Rated current : 48.4/24.2 A Protection degree : IP55 L. R. Amperes : 300/150 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 19.0/9.50 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1175 rpm Noise level<sup>2</sup> : 59.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 89.4 ft.lb Approx. weight<sup>3</sup> : 438 lb Locked rotor torque : 229 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.16 sq.ft.lb Design : B Output 50% 75% 100% Foundation loads Efficiency (%) 91.0 90.0 91.7 90.3 91.7 90.3 Max. traction : 908 lb 89.3 89.3 90.3 90.6 90.3 90.8 90.2 90.2 90.2 90.2 88.5 89.5 90.2 91.0 90.2 0.70 0.66 Power Factor 0.80 0.79 0.85 0.84 Max. compression : 1346 lb 0.63 0.60 0.76 0.73 0.83 0.81 0.76 0.73 0.83 0.82 0.86 0.86 0.70 0.80 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.7 8.7 8.7 8.7 8.7 8.7 P2 (0,5;1,0) 7.1 7.1 7.1 7.1 7.1 7.1 7.1 P3 (0,25;1,0) 6.9 6.9 6.9 6.9 6.9 6.9 6.9 P4 (0,9;0,5) Losses (%) 4.3 4.3 4.3 4.3 4.3 4.3 4.3 P5 (0,5;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 P6 (0,5;0,25) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Drive end Non drive end Bearing type 6311 C3 6211 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 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	