## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 13588683 Catalog #: 00136ET3EPM143/5Y-W2 Frame : 145YZ Locked rotor time : 36s (cold) 20s (hot) Output : 1 HP (0.75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 208-230/460 V : 1000 m.a.s.l. Altitude Rated current : 3.16-2.94/1.47 A Protection degree : IP55 L. R. Amperes : 25.9-24.1/12.1 A Cooling method : IC418 - TEAO **LRC** : 8.2x(Code L) Mounting : F-1 No load current : 1.33-1.54/0.770 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3500 rpm Noise level<sup>2</sup> : 68.0 dB(A) Starting method Slip : 2.78 % : Direct On Line Rated torque : 1.50 ft.lb Approx. weight<sup>3</sup> : 36.9 lb Locked rotor torque : 220 % Breakdown torque : 310 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0332 sq.ft.lb 25% 75% 100% Foundation loads Output 50% Efficiency (%) 73.8 70.6 75.0 72.9 79.0 77.6 80.0 80.0 Max. traction : 24 lb 70.0 69.4 72.3 71.7 77.6 77.6 80.0 80.0 76.6 75.4 77.0 77.0 78.5 78.5 78.5 80.0 77.0 78.5 Power Factor 0.37 0.35 0.63 0.58 0.74 0.70 0.80 0.78 Max. compression : 61 lb 0.31 0.29 0.53 0.50 0.66 0.63 0.75 0.72  $0.42\ 0.38\ 0.68\ 0.63\ 0.78\ 0.75\ 0.85\ 0.82$ 0.72 0.35 0.60 0.80 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 22.8 22.8 22.8 22.8 22.8 22.8 22.8 P2 (0,5;1,0) 16.9 16.9 16.9 16.9 16.9 16.9 16.9 P3 (0,25;1,0) 16.0 16.0 16.0 16.0 16.0 16.0 16.0 P4 (0,9;0,5) Losses (%) 14.5 14.5 14.5 14.5 14.5 14.5 14.5 P5 (0,5;0,5) 8.4 8.4 8.4 8.4 8.4 8.4 8.4 P6 (0,5;0,25) 6.7 6.7 6.7 6.7 6.7 6.7 6.7 P7 4.4 4.4 4.4 4.4 4.4 4.4 4.4 (0,25;0,25)Drive end Non drive end Bearing type 6205 ZZ 6204 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 must be eliminated.

- (1) Looking the motor from the shaft end.
- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	29/03/2024				1/1	