## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 14420282 Catalog #: E03012EP3Y225SMF3-W2 Frame : 225S/M Locked rotor time : 21s (cold) 12s (hot) Output : 30 kW (40 HP) Temperature rise : 80 K Poles Duty cycle : S1 : -20°C to +40°C Frequency : 50 Hz Ambient temperature Rated voltage : 380/660 V : 1000 m.a.s.l. Altitude Rated current : 59.2/34.1 A Protection degree : IP55 L. R. Amperes : 367/211 A Cooling method : IC411 - TEFC LRC : 6.2 Mounting : B3T No load current : 24.0/13.8 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 985 rpm Noise level<sup>2</sup> : 63.0 dB(A) Starting method Slip : 1.50 % : Direct On Line Rated torque : 215 ft.lb Approx. weight<sup>3</sup> : 792 lb Locked rotor torque : 220 % Breakdown torque : 250 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 17.1 sq.ft.lb Design : N 25% Output 50% 75% 100% Foundation loads Efficiency (%) 91.6 91.6 91.7 91.7 91.7 91.7 91.7 Max. traction : 1553 lb 91.2 91.0 91.3 91.7 91.7 92.4 91.7 93.0 Power Factor 0.44 0.39 0.70 0.65 0.79 0.76 0.84 0.82 Max. compression : 2346 lb 0.36 0.39 0.62 0.66 0.73 0.76 0.80 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.7 8.7 8.7 7.3 P2 (0,5;1,0) 7.3 7.3 7.3 6.0 P3 (0,25;1,0) 6.6 6.6 6.6 5.5 Losses (%) P4 (0,9;0,5) 4.1 4.1 4.1 3.4 P5 (0,5;0,5) 2.8 2.8 2.8 2.3 P6 (0,5;0,25) 1.8 1.8 1.8 1.5 P7 (0,25;0,25) 1.3 1.3 1.3 1.0 Non drive end **Drive end** 6314 C3 6314 C3 Bearing type WSeal WSeal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 27 g 27 g 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 IEC 60034-1.

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Customer	

#### Thermal protection

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ID	Application	Туре	Quantity	Sensing Temperature	
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C	

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