## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: Catalog #: E01536EP3Y160MF3-W22 : 160M Locked rotor time Frame : 14s (cold) 8s (hot) Output : 15 kW (20 HP) Temperature rise : 80 K Poles Duty cycle : S1 : 2 Frequency : 50 Hz Ambient temperature : -20°C to +40°C : 380/660 V Rated voltage Altitude : 1000 m.a.s.l. Rated current Protection degree : IP55 : 28.5/16.4 A : IC411 - TEFC L. R. Amperes : 200/115 A Cooling method Mounting **LRC** : 7.0 : B3T : Both (CW and CCW) No load current : 8.60/4.95 A Rotation<sup>1</sup> Rated speed : 2940 rpm Noise level<sup>2</sup> : 67.0 dB(A) Slip : 2.00 % Starting method : Direct On Line Rated torque : 294 lb : 36.0 ft.lb Approx. weight<sup>3</sup> Locked rotor torque : 240 % Breakdown torque : 280 % : F Insulation class Service factor : 1.00 Moment of inertia (J) : 1.23 sq.ft.lb Design : N 25% Foundation loads Output 50% 75% 100% Efficiency (%) 91.6 90.8 91.4 91.0 91.3 91.3 90.9 91.3 Max. traction : 381 lb 90.3 89.4 90.6 90.2 91.2 91.0 91.4 91.7 Power Factor 0.52 0.47 0.76 0.71 0.84 0.81 0.88 0.86 Max. compression : 674 lb 0.44 0.45 0.67 0.68 0.78 0.80 0.84 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.0 9.5 9.4 9.0 P2 (0,5;1,0) 8.9 8.5 8.4 8.1 P3 (0,25;1,0) 7.9 7.6 7.5 7.2 Losses (%) P4 (0,9;0,5) 4.4 4.2 4.2 4.0 P5 (0,5;0,5) 3.1 2.9 2.9 2.8 P6 (0,5;0,25) 1.8 1.7 1.7 1.6 P7 (0,25;0,25) 1.3 1.2 1.2 1.2 Drive end Non drive end 6309 ZZ C3 Bearing type 6209 ZZ C3 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 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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