## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 14421482 Catalog #: E11018EP3Y315SMF3-Frame : 315S/M Locked rotor time : 46s (cold) 26s (hot) Output : 110 kW (150 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 : 205/118 A Protection degree : IP55 L. R. Amperes : 1230/708 A Cooling method : IC411 - TEFC LRC : 6.0 Mounting : B3T No load current : 54.0/31.1 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1487 rpm Noise level<sup>2</sup> : 71.0 dB(A) Starting method Slip : 0.87 % : Direct On Line Rated torque : 521 ft.lb Approx. weight<sup>3</sup> : 2045 lb Locked rotor torque : 180 % Breakdown torque : 200 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 60.9 sq.ft.lb Design : N 25% 100% Output 50% 75% Foundation loads Efficiency (%) 94.5 94.2 94.6 94.3 94.9 95.0 94.9 95.0 Max. traction : 1574 lb 93.6 92.4 93.9 93.0 94.8 94.5 95.0 95.0 Power Factor 0.56 0.50 0.78 0.74 0.85 0.83 0.86 0.86 Max. compression : 3618 lb 0.47 0.49 0.70 0.72 0.81 0.81 0.84 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.2 5.1 5.1 5.1 P2 (0,5;1,0) 4.0 3.9 3.9 3.9 P3 (0,25;1,0) 3.5 3.4 3.4 3.4 Losses (%) P4 (0,9;0,5) 2.7 2.7 2.7 2.7 P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.6 0.6 0.6 0.6 Non drive end **Drive end** 6316 C3 Bearing type 6319 C3 WSeal WSeal Sealing Lubrication interval 11000 h 13000 h Lubricant amount 45 g 34 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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