DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE2 Three-Phase Product code: 14421090 Catalog #: E05536EP3Y250SMF3-W2 Frame : 250S/M Locked rotor time : 16s (cold) 9s (hot) Output : 55 kW (75 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 : 99.6/57.4 A Protection degree : IP55 L. R. Amperes : 697/401 A Cooling method : IC411 - TEFC LRC : 7.0 Mounting : B3T No load current : 24.6/14.2 A Rotation¹ : Both (CW and CCW) Rated speed : 2960 rpm Noise level² : 75.0 dB(A) Starting method Slip : 1.33 % : Direct On Line Rated torque : 131 ft.lb Approx. weight³ : 1107 lb Locked rotor torque : 260 % : 280 % Breakdown torque Insulation class : F Service factor : 1.00 Moment of inertia (J) : 8.86 sq.ft.lb Design : N 25% Output 50% 75% 100% Foundation loads Efficiency (%) 92.8 92.5 92.8 92.7 93.4 93.4 93.2 93.5 Max. traction : 554 lb 92.2 91.5 92.5 91.9 93.5 93.2 93.7 93.5 Power Factor 0.60 0.55 0.83 0.79 0.88 0.86 0.90 0.89 Max. compression : 1661 lb 0.51 0.53 0.75 0.76 0.84 0.86 0.88 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.0 6.7 6.4 6.7 P2 (0,5;1,0) 5.5 5.2 5.0 5.2 P3 (0,25;1,0) 4.7 4.5 44 4.5 Losses (%) P4 (0,9;0,5) 3.5 3.3 3.2 3.3 P5 (0,5;0,5) 2.1 2.0 1.9 2.0 P6 (0,5;0,25) 1.3 1.2 1.2 1.2 P7 (0,25;0,25) 8.0 0.7 0.7 0.7 Non drive end **Drive end** 6314 C3 Bearing type 6314 C3 WSeal WSeal Sealing Lubrication interval 5000 h 5000 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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Three Phase Induction Motor - Squirrel Cage



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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