DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 14424386 Catalog #: E09036EP3Y280SMF3-W2 Frame : 280S/M Locked rotor time : 45s (cold) 25s (hot) Output : 90 kW (125 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 : 165/95.0 A Protection degree : IP55 L. R. Amperes : 1155/665 A Cooling method : IC411 - TEFC LRC : 7.0 Mounting : B3T No load current : 42.0/24.2 A Rotation¹ : Both (CW and CCW) Rated speed : 2975 rpm Noise level² : 77.0 dB(A) Starting method Slip : 0.83 % : Direct On Line Rated torque : 213 ft.lb Approx. weight³ : 1643 lb Locked rotor torque : 180 % Breakdown torque : 250 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 22.3 sq.ft.lb Design : N 25% 100% Output 50% 75% Foundation loads Efficiency (%) 94.3 93.9 94.2 94.0 94.6 94.6 94.4 94.6 Max. traction : 690 lb 93.7 91.5 93.8 92.4 94.5 93.6 94.5 94.5 Power Factor 0.58 0.53 0.81 0.77 0.86 0.85 0.88 0.87 Max. compression : 2333 lb 0.49 0.52 0.74 0.76 0.82 0.84 0.86 0.87 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.5 5.3 5.4 5.4 P2 (0,5;1,0) 3.8 3.7 3.8 3.8 P3 (0,25;1,0) 3.3 3.2 3.3 3.3 Losses (%) P4 (0,9;0,5) 3.1 3.0 3.1 3.1 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** 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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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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