DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 14420736 Catalog #: E03718EP3Y225SMF3-W2 Frame : 225S/M Locked rotor time : 14s (cold) 8s (hot) Output : 37 kW (50 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 : 72.2/41.6 A Rated current Protection degree : IP55 L. R. Amperes : 484/279 A Cooling method : IC411 - TEFC LRC : 6.7 Mounting : B3T No load current : 25.0/14.4 A Rotation¹ : Both (CW and CCW) Rated speed : 1480 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.33 % : Direct On Line Rated torque : 176 ft.lb Approx. weight³ : 754 lb Locked rotor torque : 229 % : 250 % Breakdown torque Insulation class : F Service factor : 1.00 Moment of inertia (J) : 10.5 sq.ft.lb Design : N 25% Output 50% 75% 100% Foundation loads Efficiency (%) 92.1 91.7 92.2 91.9 92.7 92.7 92.7 92.7 Max. traction : 1123 lb 91.5 91.1 91.7 91.5 92.7 92.7 92.7 93.0 Power Factor 0.49 0.45 0.75 0.70 0.82 0.80 0.84 0.83 Max. compression : 1877 lb 0.43 0.44 0.68 0.70 0.78 0.80 0.82 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.6 7.6 7.6 6.6 P2 (0,5;1,0) 6.3 6.3 6.3 5.5 P3 (0,25;1,0) 5.7 5.7 5.7 5.0 Losses (%) P4 (0,9;0,5) 3.5 3.5 3.5 3.0 P5 (0,5;0,5) 2.2 2.2 2.2 2.0 P6 (0,5;0,25) 1.4 1.4 1.4 1.2 P7 (0,25;0,25) 0.9 0.9 0.9 8.0 Non drive end **Drive end** 6314 C3 Bearing type 6314 C3 WSeal WSeal Sealing Lubrication interval 14000 h 14000 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.

(1)/14/100/001/10					
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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		

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
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