DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 14421229 Catalog #: E09012EP3Y315SMF3-W2 Frame : 315S/M Locked rotor time : 39s (cold) 22s (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 : 175/101 A Protection degree : IP55 L. R. Amperes : 1015/584 A Cooling method : IC411 - TEFC LRC : 5.8 Mounting : B3T No load current : 66.0/38.0 A Rotation¹ : Both (CW and CCW) Rated speed : 990 rpm Noise level² : 67.0 dB(A) Starting method Slip : 1.00 % : Direct On Line Rated torque : 641 ft.lb Approx. weight³ : 1969 lb Locked rotor torque : 180 % Breakdown torque : 220 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 108 sq.ft.lb Design : N 25% 100% Output 50% 75% Foundation loads Efficiency (%) 93.9 93.9 94.0 94.0 94.0 94.0 94.0 94.0 Max. traction : 2718 lb 93.7 93.5 93.8 93.6 94.0 94.1 94.0 94.1 Power Factor 0.45 0.41 0.71 0.67 0.80 0.77 0.83 0.81 : 4687 lb Max. compression 0.38 0.39 0.64 0.65 0.74 0.75 0.80 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.2 6.2 6.2 6.1 P2 (0,5;1,0) 4.9 4.9 4.9 4.8 P3 (0,25;1,0) 4.5 4.5 4.5 4.4 Losses (%) P4 (0,9;0,5) 3.1 3.1 3.1 3.1 P5 (0,5;0,5) 2.1 2.1 2.1 2.0 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 0.9 0.9 0.9 0.9 Non drive end **Drive end** 6316 C3 Bearing type 6319 C3 WSeal WSeal Sealing Lubrication interval 16000 h 18000 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	

Rev.	Changes Summary		Performed	Checked	Date
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