DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 14427591 Catalog #: E13218EP3Y315SMF3-W2 Frame : 315S/M Locked rotor time : 39s (cold) 22s (hot) Output : 132 kW (175 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 : 240/138 A Protection degree : IP55 L. R. Amperes : 1584/912 A Cooling method : IC411 - TEFC LRC : 6.6 Mounting : B3T No load current : 68.0/39.2 A Rotation¹ : Both (CW and CCW) Rated speed : 1488 rpm Noise level² : 71.0 dB(A) Starting method Slip : 0.80 % : Direct On Line Rated torque : 625 ft.lb Approx. weight³ : 2101 lb Locked rotor torque : 210 % Breakdown torque : 229 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 73.9 sq.ft.lb Design : N 25% 100% Output 50% 75% Foundation loads Efficiency (%) 94.9 94.5 94.8 94.6 95.2 95.2 95.0 95.2 Max. traction : 2563 lb 94.2 93.0 94.4 93.6 95.1 94.5 95.2 95.0 Power Factor 0.55 0.51 0.79 0.76 0.86 0.84 0.88 0.87 Max. compression : 4665 lb 0.47 0.49 0.73 0.73 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) 5.2 5.0 5.0 5.2 P2 (0,5;1,0) 3.8 3.7 3.7 3.8 P3 (0,25;1,0) 3.3 3.1 3.1 3.3 Losses (%) P4 (0,9;0,5) 2.8 2.7 2.7 2.8 P5 (0,5;0,5) 1.7 1.6 1.6 1.7 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 P7 (0,25;0,25) 0.7 0.6 0.6 0.7 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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