DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 14427590 Catalog #: E13212EP3Y315SMF3-W2 Frame : 315S/M Locked rotor time : 30s (cold) 17s (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 : 249/143 A Protection degree : IP55 L. R. Amperes : 1594/918 A Cooling method : IC411 - TEFC LRC : 6.4 Mounting : B3T No load current : 87.1/50.1 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 : 940 ft.lb Approx. weight³ : 2284 lb Locked rotor torque : 200 % : 210 % Breakdown torque Insulation class : F Service factor : 1.00 Moment of inertia (J) : 151 sq.ft.lb Design : N 25% 100% Output 50% 75% Foundation loads Efficiency (%) 95.0 94.5 94.9 94.6 95.0 95.0 94.8 95.0 Max. traction : 3734 lb 94.1 94.0 94.3 94.1 94.9 95.0 95.0 95.0 Power Factor 0.49 0.44 0.75 0.71 0.83 0.80 0.85 0.84 Max. compression : 6019 lb 0.41 0.42 0.68 0.67 0.78 0.80 0.83 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.4 5.2 5.2 5.2 P2 (0,5;1,0) 4.4 4.2 4.2 4.2 P3 (0,25;1,0) 4.0 3.9 3.9 3.9 Losses (%) P4 (0,9;0,5) 2.6 2.5 2.5 2.5 P5 (0,5;0,5) 1.8 1.7 1.7 1.7 P6 (0,5;0,25) 1.2 1.1 1.1 1.1 P7 (0,25;0,25) 0.7 0.7 0.7 0.7 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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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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