DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof High Efficiency Three-Product code: 11124456 : 444/5T Locked rotor time Frame : 52s (cold) 29s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 460 V Rated voltage Altitude : 1000 m.a.s.l. Rated current : 123 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 753 A Cooling method **LRC** : 6.1x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 45.0 A Rotation¹ Rated speed : 890 rpm Noise level² : 64.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 2062 lb : 590 ft.lb Approx. weight³ Locked rotor torque : 170 % Breakdown torque : 200 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 87.3 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.3 92.4 93.0 93.0 Max. traction : 2114 lb Power Factor 0.46 0.71 0.79 0.82 Max. compression : 4177 lb Drive end Non drive end Bearing type 6219 C3 6316 C3 Oil Seal Lip Seal Sealing Lubrication interval 15247 h 15904 h Lubricant amount 28 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 NEMA MG-1.

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Thermal protection

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ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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