DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC. Product line : IE3 Premium Efficiency Alumínio Multi Montagem Tru Metric : L100L Locked rotor time Frame : 18 s (hot) 32 s (cold) Output : 4 HP (3 kW) Temperature rise : 80 K Poles : 4 Duty cycle : S1 Ambient temperature : -20 °C to +40 °C Frequency : 60 Hz Rated voltage : 230/460 V Altitude : 3280 ft Rated current : 10.7/5.33 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 91.7/45.8 A LRC Mounting : 8.6 Code L : B35T : 6.40/3.20 A Rotation¹ No load current : Both Rated speed : 1740 rpm Noise level² : 54.0 dB(A) Slip : 3.33 % Vibration class : A Rated torque : 16.4 Nm Starting method : Direct On Line Locked rotor torque : 460 % Coupling : Direct Pull up torque : 390 % Approx. weight³ : 82.7 lb : 480 % : 207N Breakdown torque Painting plan Insulation class : F Color : RAL 5009 Service factor : 1.25 Design : N Moment of inertia (J) : 0.2848 sq.ft.lb Output 50% 75% 100% Load type Efficiency (%) Load torque 84.0 86.5 89.5 : -Load inertia (J=GD²/4) Power Factor 0.59 0.79 0.71 Drive end Foundation loads Non drive end Bearing type 6206-ZZ 6206-ZZ Max. traction : 1753.7 N

MOBIL POLYREX EM

Max. compression

Notes

See notes on page 2.

Lubrication interval

Lubricant amount

Lubricant type

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 be changed 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.

: 2121.6 N

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Customer : GOL PUMP TECHNOLOGY, INC.

Product line : IE3 Premium Efficiency Alumínio Multi Montagem

Tru Metric

Thermal protection

ID Application Type Quantity Sensing Temperature

1 Winding Thermistor - 2 wires 1 x Phase 155°C

Notes

Specification : MG1 - Part 10 Vibration : MG1 - Part 7
Test : MG1 - Part 12 Tolerance : MG1 - Part 12
Noise : MG1 - Part 9

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TORQUE AND CURRENT VS SPEED CURVE

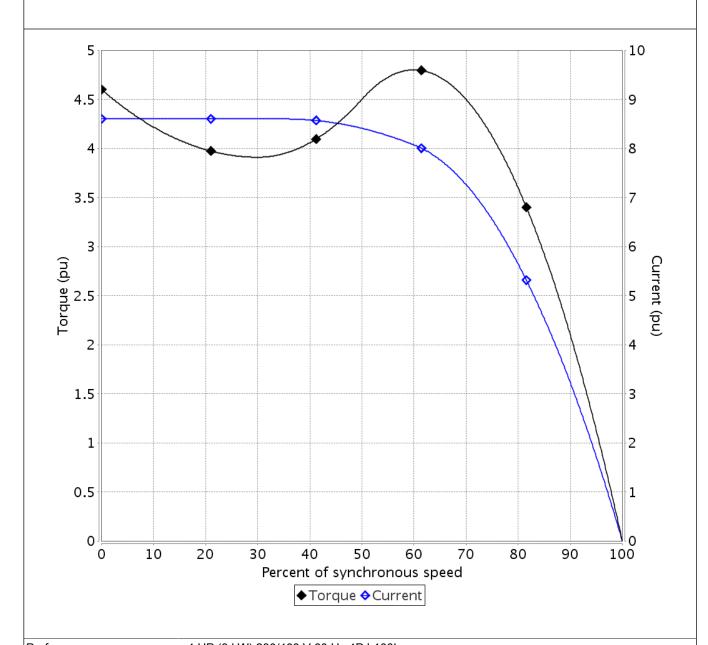
Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : IE3 Premium Efficiency Alumínio Multi Montagem

Tru Metric



Performance : 4 HP (3 kW) 230/460 V 60 Hz 4P L100L

Rated current : 10.7/5.33 A Moment of inertia (J) : 0.2848 sq.ft.lb

: 8.6 Code L : S1 LRC Duty cycle : 16.4 Nm : F Rated torque Insulation class : 460 % : 1.25 Locked rotor torque Service factor : 480 % : 80 K Temperature rise Breakdown torque : 1740 rpm : N Rated speed Design

Locked rotor time 100% : 18 s (hot) 32 s (cold)

Load inertia (J=GD²/4) : 0.2848 sq.ft.lb

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LOAD PERFORMANCE CURVE

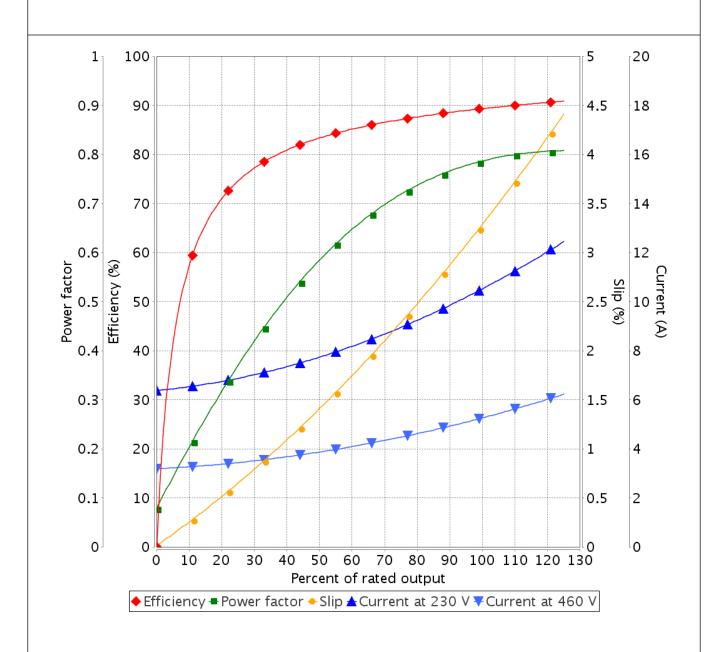
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LRC	RC: 8.6 Code L		Duty cycle		: S1		
Rated torque	: 16.4	Nm	Insulation clas		: F		
Locked rotor torq	ked rotor torque : 460 % Service factor		ector	: 1.25			
Breakdown torque : 480 %		Temperature rise		: 80 K			
Rated speed : 1740 rpm) rpm	Design : N				
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THERMAL LIMIT CURVE

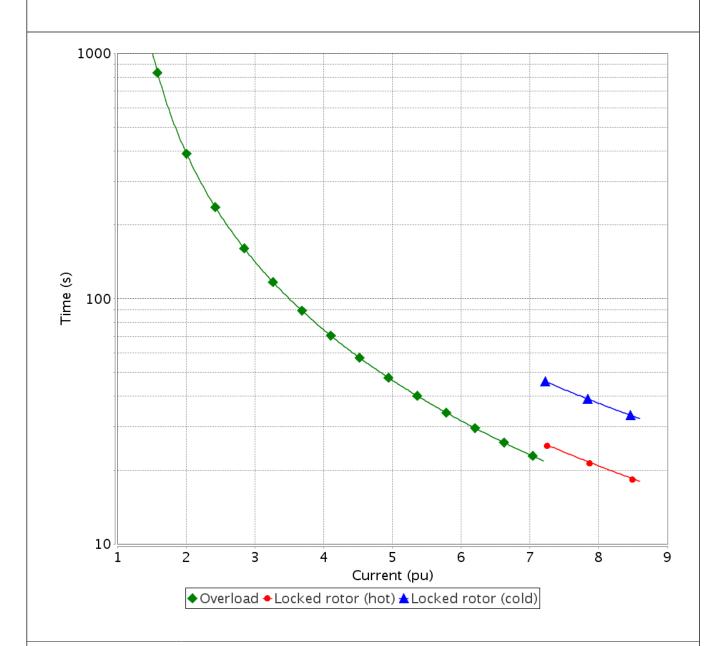
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Heating constant : 18.9 min

Cooling constant : 56.7 min

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