DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC. Product line : IE3 Premium Efficiency Alumínio Multi Montagem Tru Metric Locked rotor time Frame : 112M : 19 s (hot) 34 s (cold) Output : 5.5 HP (4 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 : 14.6/7.28 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 116/58.2 A LRC Mounting : 8.0 Code K : B35T Rotation¹ No load current : 8.50/4.25 A : Both Rated speed : 1755 rpm Noise level² : 56.0 dB(A) : 2.50 % Vibration class Slip : A Rated torque : 22.3 Nm Starting method : Direct On Line Locked rotor torque : 250 % Coupling : Direct Pull up torque : 210 % Approx. weight³ : 83.8 lb : 350 % : 207N Breakdown torque Painting plan Insulation class : RAL 5009 : F Color

Service factor : 1.25 Design : N

Moment of inertia (J) : 0.4319 sq.ft.lb

Output 50% 75% 100% Load type : -

Efficiency (%) 87.5 89.5 89.5 Load torque : Power Factor 0.58 0.70 0.77 Load inertia (J=GD²/4) :
Drive end Non drive end Foundation loads

MOBIL POLYREX EM

Bearing type 6307-ZZ 6206-ZZ Max. traction : 1435.6 N
Lubrication interval - - Max. compression : 1808.4 N
Lubricant amount -

Notes

Lubricant type

See notes on page 2.

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.

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Three Phase Induction Motor - Squirrel Cage



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

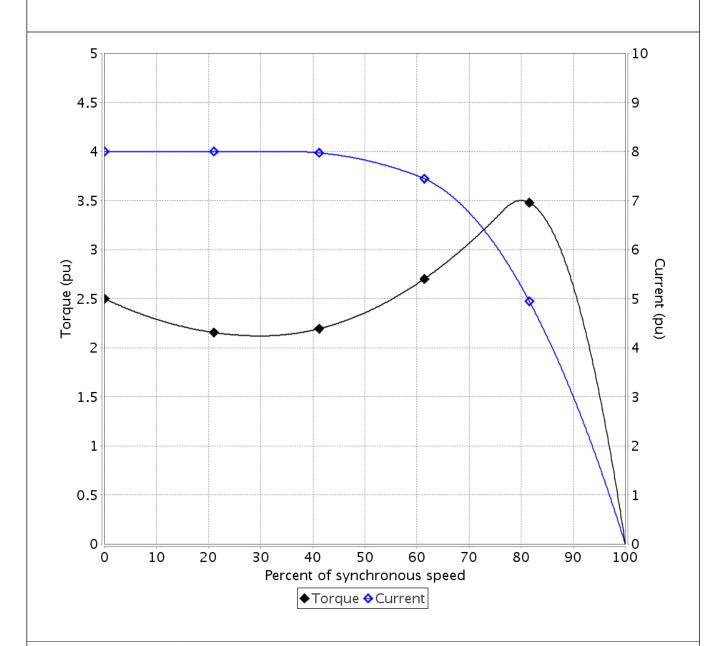
Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : IE3 Premium Efficiency Alumínio Multi Montagem

Tru Metric



Performance : 5.5 HP (4 kW) 230/460 V 60 Hz 4P 112M

Rated current : 14.6/7.28 A Moment of inertia (J) : 0.4319 sq.ft.lb

: 8.0 Code K : S1 LRC Duty cycle : 22.3 Nm : F Rated torque Insulation class : 250 % : 1.25 Locked rotor torque Service factor : 350 % : 80 K Temperature rise Breakdown torque : 1755 rpm : N Rated speed Design

Locked rotor time 100% : 19 s (hot) 34 s (cold)

Load inertia (J=GD²/4) : 0.4319 sq.ft.lb

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LOAD PERFORMANCE CURVE

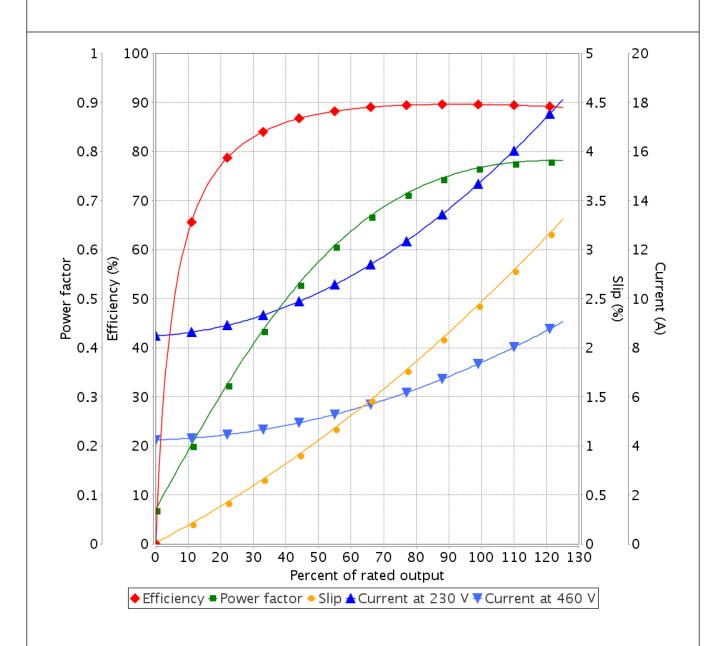
Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : IE3 Premium Efficiency Alumínio Multi Montagem

Tru Metric



Performance	: 5.5 l	: 5.5 HP (4 kW) 230/460 V 60 Hz 4P 112M						
Rated current : 14.6/7.28 A		Moment of inertia (J)		: 0.4319 sq.ft.lb				
LRC : 8.0 Code K		Duty cycle		: S1				
Rated torque : 22.3 Nm		Insulation class		: F				
Locked rotor torque : 250 %		Service factor		: 1.25				
Breakdown torque : 350 %		Temperature rise		: 80 K				
Rated speed : 1755 rpm		rpm	Design		: N			
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THERMAL LIMIT CURVE

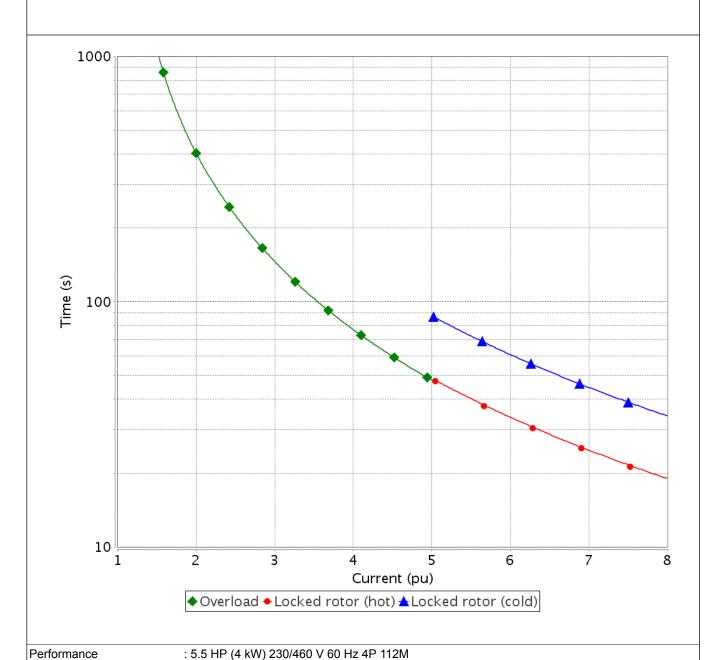
Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : IE3 Premium Efficiency Alumínio Multi Montagem

Tru Metric



Rated current : 14.6/7.28 A Moment of inertia (J) : 0.4319 sq.ft.lb

: 8.0 Code K : S1 LRC Duty cycle : 22.3 Nm : F Rated torque Insulation class : 250 % : 1.25 Locked rotor torque Service factor : 350 % : 80 K Temperature rise Breakdown torque : 1755 rpm : N Rated speed Design

Heating constant : 19.5 min

Cooling constant : 58.5 min

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