DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency

Frame : 200M Locked rotor time : 12 s (hot) 22 s (cold) Output : 30 kW Temperature rise : 80 K Poles Duty cycle : S1 • 4 Ambient temperature : -20 °C to +40 °C Frequency : 60 Hz Rated voltage Altitude : 3280 ft : 230/460 V Rated current : 95.3/47.6 A Protection degree : IP55 L. R. Amperes : 695/348 A Cooling method : IC411 - TEFC Mounting **LRC** : B35T : 7.3 Rotation¹ No load current : 42.1/21.0 A : Both Rated speed : 1782 rpm Noise level² : 66.0 dB(A) Slip : 1.00 % Vibration class : A Rated torque : 161 Nm Starting method : Direct On Line Locked rotor torque : 280 % Coupling : Direct Pull up torque : 195 % Approx. weight³ : 474 lb Breakdown torque : 280 % Painting plan : 203A : F : RAL 5009 Insulation class Color Service factor : 1.25 Design : N Moment of inertia (J) : 7.60 sq.ft.lb 50% 100% Output 75% Load type Efficiency (%) Load torque 93.5 94.0 94.1 : -Load inertia (J=GD²/4) Power Factor 0.68 0.84 0.78 ٠_ Foundation loads Drive end Non drive end Bearing type Max. traction : 4610.9 N 6312-ZZ-C3 6212-ZZ-C3 Lubrication interval : 6720.0 N Max. compression Lubricant amount Lubricant type MOBIL POLYREX EM

Notes

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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency

Thermal protection

> ID Sensing Temperature Application Type Quantity 1 Winding Thermistor - 2 wires 1 x Phase 155°C

Notes

Specification : IEC 60034-1 Standards : IEC 60034-2 Test Noise : IEC 60034-9

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.

Vibration : IEC 60034-14 : IEC 60034-1 Tolerance

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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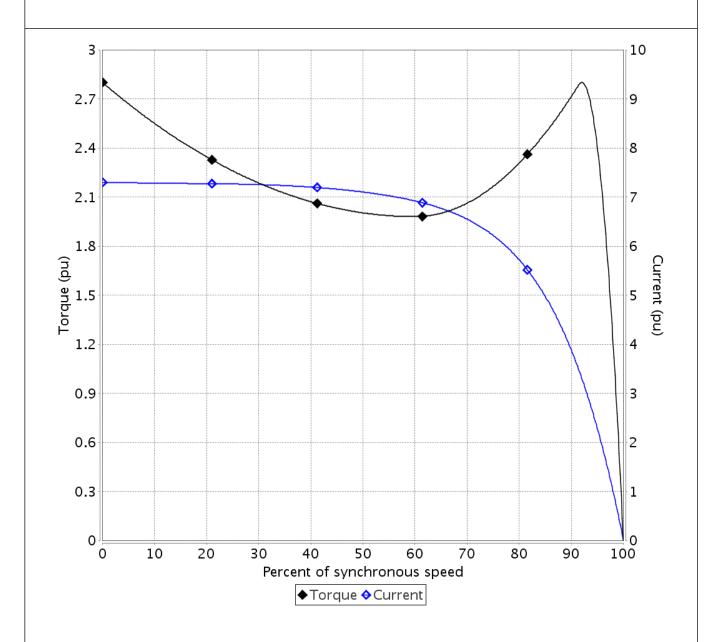
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency



Performance	e : 30 kW 230/460 V 60 Hz 4P 200M			
Rated current	: 95.3/47.6 A	Moment of inertia (J)	: 7.60 sq.ft.lb	
LRC	: 7.3	Duty cycle	: S1	
Rated torque	: 161 Nm	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.25	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1782 rpm	Design	: N	
	40 - (11) 00 - (1-1)			

Locked rotor time 100% : 12 s (hot) 22 s (cold)

Load inertia (J=GD²/4) : 7.60 sq.ft.lb

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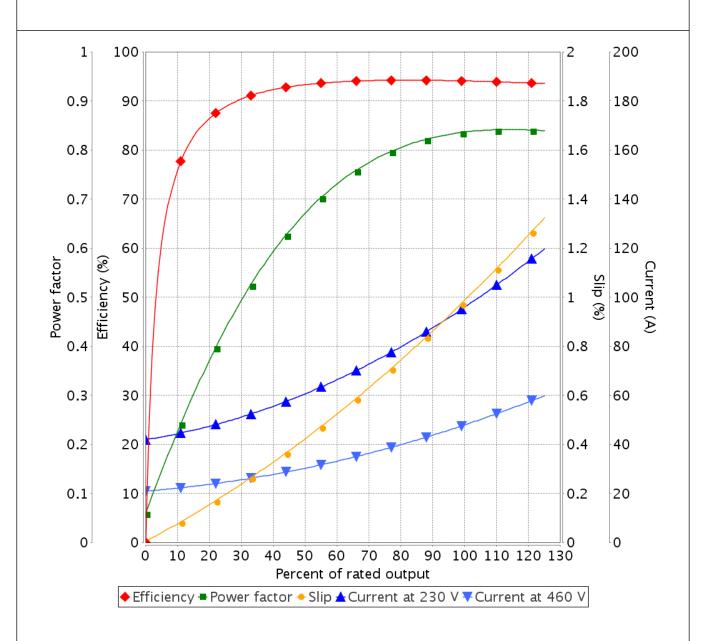
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency



Performance	: 30 F	W 230/460 V 60 Hz 4P 2	200M			
Rated current : 95.3/47.6 A		Moment of inertia (J)		: 7.60 sq.ft.lb		
LRC : 7.3			Duty cycle		: S1	
Rated torque : 161 Nm		Nm	Insulation class		: F	
Locked rotor torque : 280 % Breakdown torque : 280 % Rated speed : 1782 rpm		%	Service factor Temperature rise Design		: 1.25 : 80 K : N	
		%				
		2 rpm				
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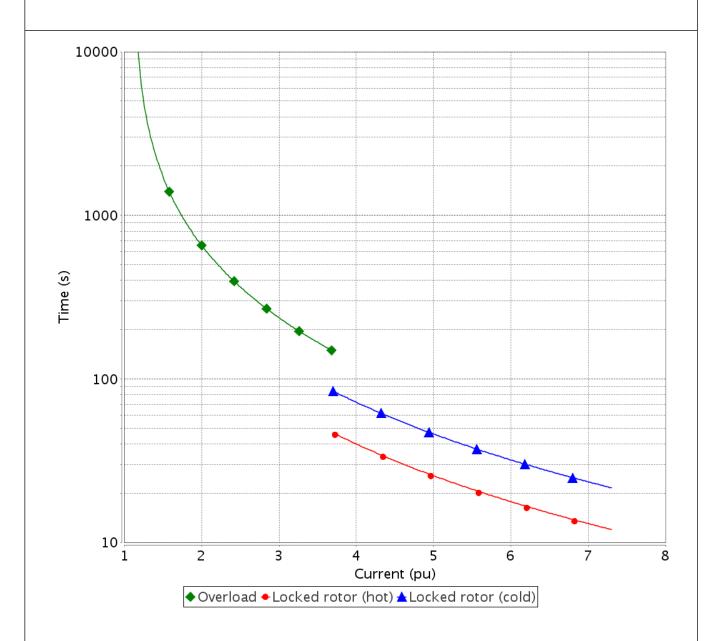
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency



Performance	: 30 kW 230/460 V 60 Hz 4P 200M				
Rated current	: 95.3/47.6 A	Moment of inertia (J)	: 7.60 sq.ft.lb		
LRC	: 7.3	Duty cycle	: S1		
Rated torque	: 161 Nm	Insulation class	: F		
Locked rotor torque	: 280 %	Service factor	: 1.25		
Breakdown torque	: 280 %	Temperature rise	: 80 K		
Rated speed	: 1782 rpm	Design	: N		
Heating constant	: 31.7 min				
Cooling constant	: 95.1 min				

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