DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency

Frame : 160M Locked rotor time : 14 s (hot) 25 s (cold) Output : 11 kW Temperature rise : 80 K Poles : 2 Duty cycle : S1 : -20 °C to +40 °C Frequency : 60 Hz Ambient temperature Rated voltage Altitude : 230/460 V : 3280 ft Rated current : 35.2/17.6 A Protection degree : IP55 Cooling method L. R. Amperes : 271/136 A : IC411 - TEFC LRC Mounting : B35T : 7.7 Rotation¹ : 13.0/6.50 A No load current : Both Rated speed : 3550 rpm Noise level² : 72.0 dB(A) : 1.39 % Vibration class Slip : A Rated torque : 29.6 Nm Starting method : Direct On Line Locked rotor torque : 260 % Coupling : Direct Pull up torque : 165 % Approx. weight³ : 229 lb Breakdown torque : 340 % Painting plan : 203A : F : RAL 5009 Insulation class Color Service factor : 1.25 Design : N Moment of inertia (J) : 1.05 sq.ft.lb Output 50% 75% 100% Load type Efficiency (%) 89.0 90.2 91.0 Load torque : -Power Factor 0.72 Load inertia (J=GD²/4) 0.81 0.86 ٠_ Drive end Non drive end Foundation loads Bearing type Max. traction : 1075.1 N 6309-ZZ-C3 6209-ZZ-C3 : 2095.4 N Lubrication interval 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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Rev.		Changes Summary	Rev.	Checked	Date
Performed by	johnson			12283	52483
Checked by	AUTOMATICO			Page	Rev.
Date	02/11/2021			1/5	1

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency

Thermal protection

ID Application Type Quantity Sensing Temperature

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

Notes

 get
 Specification
 : IEC 60034-1

 Test
 : IEC 60034-2

 Noise
 : IEC 60034-9

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

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.

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

Checked Rev. Rev. **Changes Summary** Date Performed by johnson 1228352483 Checked by **AUTOMATICO** Page Rev. 02/11/2021 2/5 Date 1

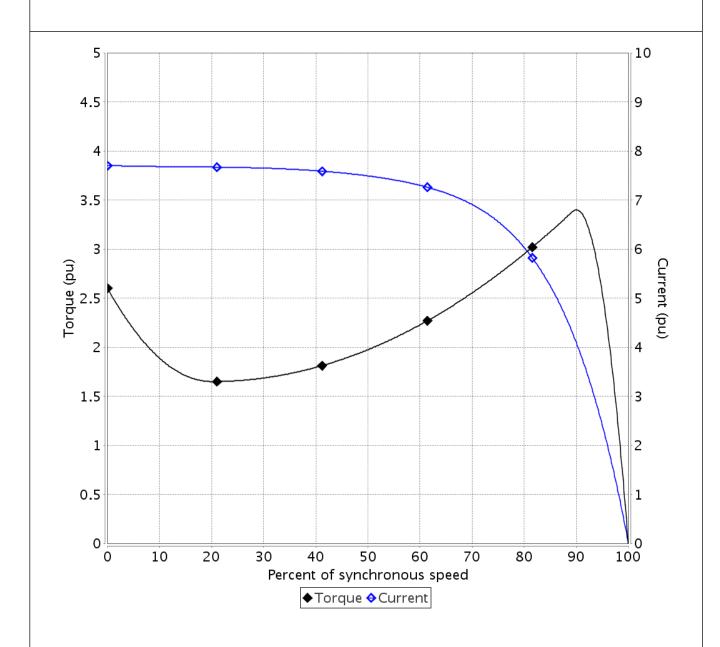
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



: GOL PUMP TECHNOLOGY, INC. Customer

Product line : W22 - IE3 Premium Efficiency



Performance	: 11 kW 230/460 V 60	Hz 2P 160M		
Rated current	: 35.2/17.6 A	Moment of inertia (J)	: 1.05 sq.ft.lb	
LRC	: 7.7	Duty cycle	: S1	
Rated torque	: 29.6 Nm	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.25	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 3550 rpm	Design	: N	

Design

: 14 s (hot) 25 s (cold) Locked rotor time 100%

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

Rated speed

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	johnson			12283	52483
Checked by	AUTOMATICO			Page	Rev.
Date	02/11/2021			3/5	1

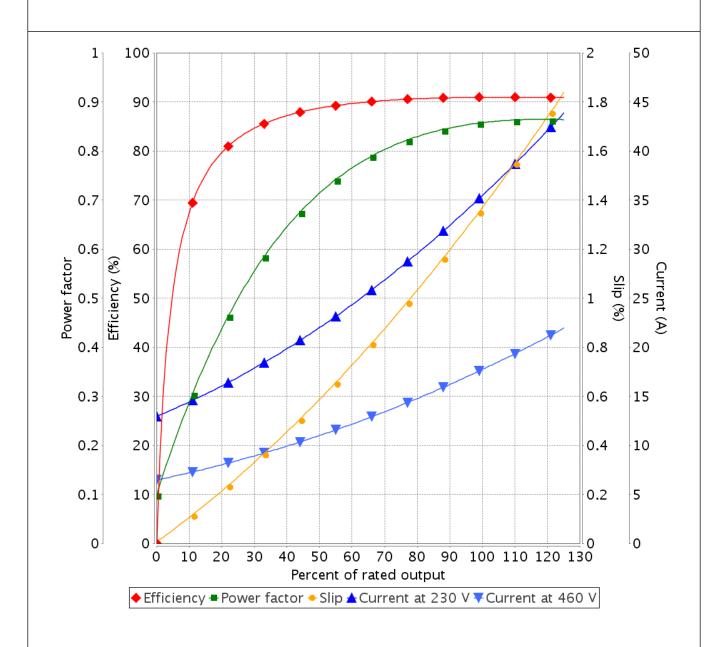
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency



Performance : 11 kW 230/460 V 60 Hz 28			160M			
Rated current : 35.2/17.6 A		/17.6 A	Moment of inertia (J)		: 1.05 sq.ft.lb	
LRC : 7.7			Duty cycle		: S1	
Rated torque : 29.6 Nm		Nm	Insulation class		: F	
Locked rotor torque : 260 % Breakdown torque : 340 %		%	Service factor Temperature rise		: 1.25 : 80 K	
		%				
Rated speed : 3550 rpm) rpm	Design		: N	
Rev. Changes Summary		1	Rev.	Checked	Date	
Performed by	johnson				122835	52483
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Data	02/11/2021				1/5	1

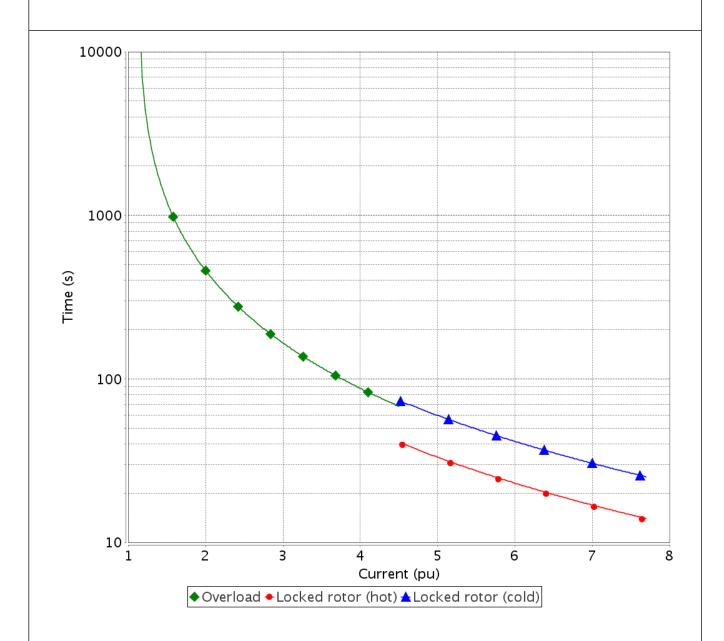
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : GOL PUMP TECHNOLOGY, INC.

Product line : W22 - IE3 Premium Efficiency



Performance	: 11 kW 230/460 V 60	Hz 2P 160M		
Rated current	: 35.2/17.6 A	Moment of inertia (J)	: 1.05 sq.ft.lb	
LRC	: 7.7	Duty cycle	: S1	
Rated torque	: 29.6 Nm	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.25	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 3550 rpm	Design	: N	
Heating constant	: 22.2 min			
Cooling constant	: 66.6 min			

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Rev.			Rev.	Checked	Date	
Performed by	johnson	johnson			1228352483	
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Date	02/11/2021				5/5	1

