DATA SHEET
Three Phase Induction Motor - Squirrel Cage

Customer	: GOL PUMP TECHNOLOGY, INC.
Product line	: W22 - IE3 Premium Efficiency

Frame	: 225S/M	Locked rotor time	: 21 s (hot) 38 s (cold)
Output	: 55 kW	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 3280 ft
Rated current	: 170/85.1 A	Protection degree	: IP55
L. R. Amperes	: 1277/638 A	Cooling method	: IC411 - TEFC
LRC	: 7.5	Mounting	: B35T
No load current	: 64.1/32.0 A	Rotation[1]	: Both
Rated speed	: 1777 rpm	Noise level[2]	: 67.0 dB(A)
Slip	: 1.28 %	Vibration class	: A
Rated torque	: 296 Nm	Starting method	: Direct On Line
Locked rotor torque	: 260 %	Coupling	: Direct
Pull up torque	: 185 %	Approx. weight[3]	: 948 lb
Breakdown torque	: 280 %	Painting plan	: 203A
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.25	Design	: N
Moment of inertia (J)	: 17.4 sq.ft.lb		

Output	50%	75%	100%
Efficiency (%)	94.5	95.0	95.4
Power Factor	0.72	0.81	0.85

Load type	: -	
Load torque	: -	
Load inertia (J=GD²/4)	: -	

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	12000 h	12000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 7194.9 N
Max. compression	: 11413.2 N

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.

Rev.	Changes Summary	Rev.	Checked	Date

Performed by	johnson		1228350400	
Checked by	AUTOMATICO		Page	Rev.
Date	02/11/2021		1 / 7	1

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Customer	: GOL PUMP TECHNOLOGY, INC.
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Thermal protection

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

Notes

Standards				
	Specification	: IEC 60034-1	Vibration	: IEC 60034-14
	Test	: IEC 60034-2	Tolerance	: IEC 60034-1
	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).
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These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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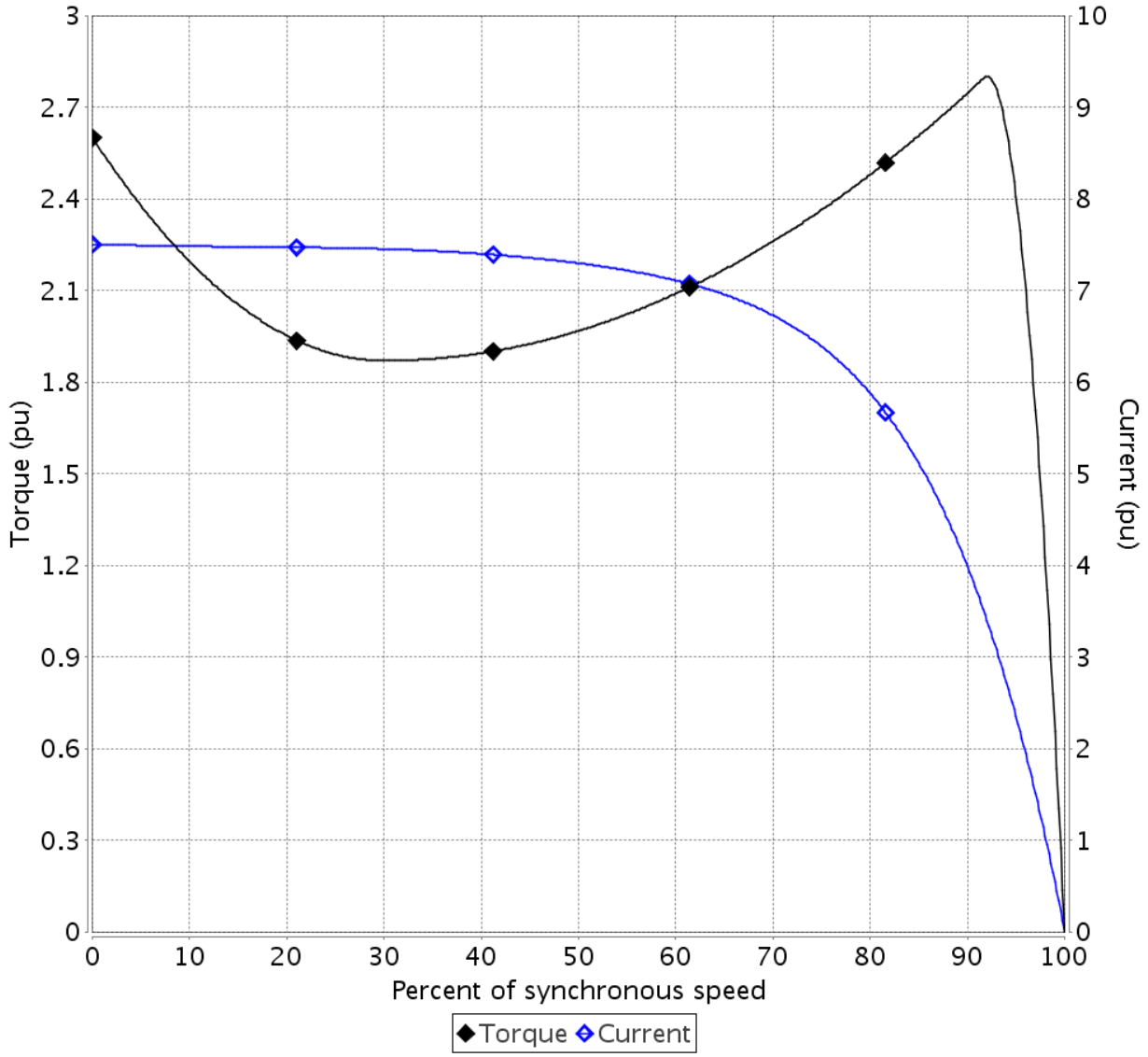
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	: GOL PUMP TECHNOLOGY, INC.
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Performance	: 55 kW 230/460 V 60 Hz 4P 225S/M

Rated current	: 170/85.1 A	Moment of inertia (J)	: 17.4 sq.ft.lb
LRC	: 7.5	Duty cycle	: S1
Rated torque	: 296 Nm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1777 rpm	Design	: N

Locked rotor time 100%	: 21 s (hot) 38 s (cold)
Load inertia (J=GD²/4)	: 17.4 sq.ft.lb

Rev.	Changes Summary	Rev.	Checked	Date

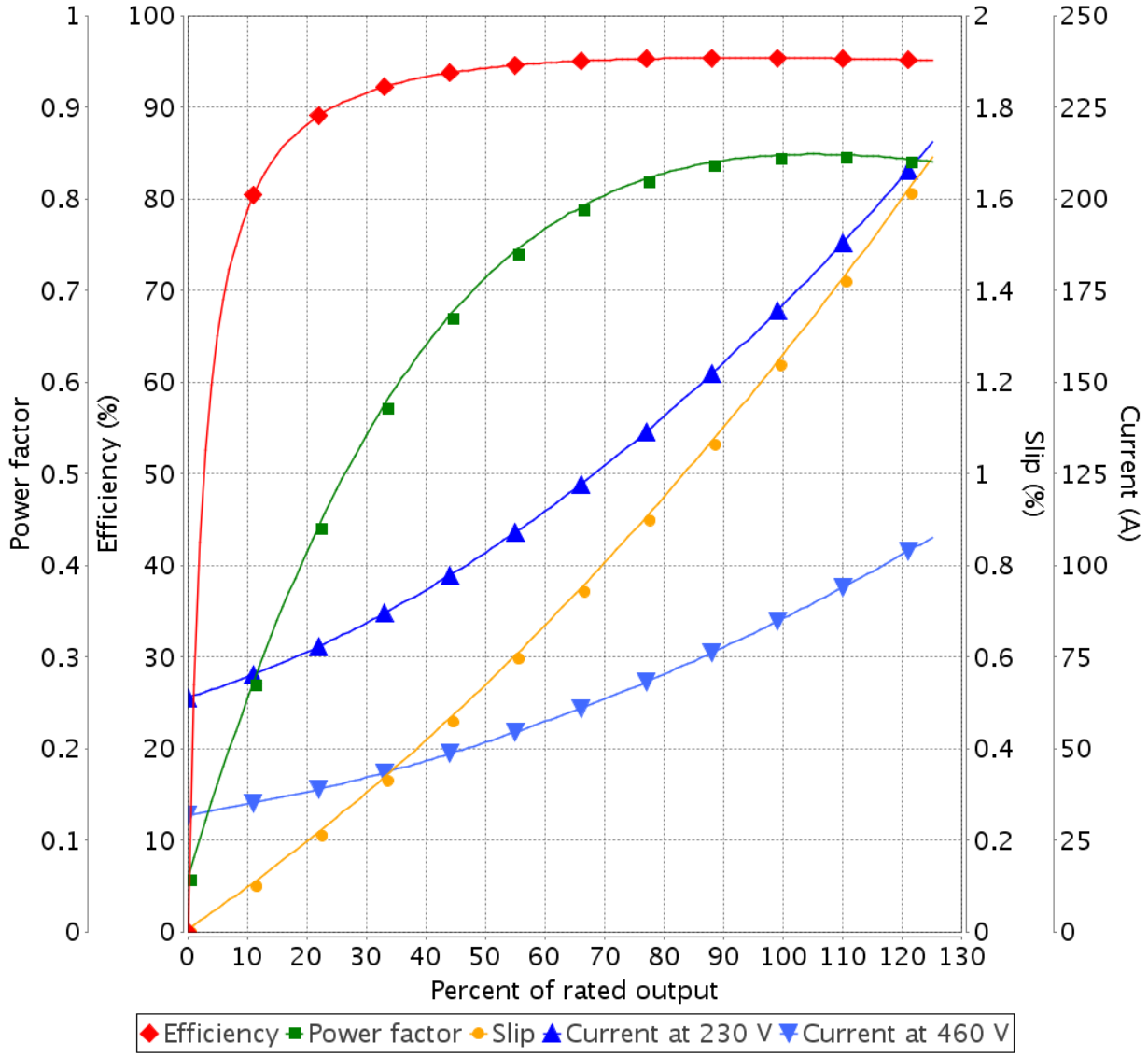
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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Rated current	: 170/85.1 A	Moment of inertia (J)	: 17.4 sq.ft.lb
LRC	: 7.5	Duty cycle	: S1
Rated torque	: 296 Nm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1777 rpm	Design	: N

Rev.	Changes Summary	Rev.	Checked	Date

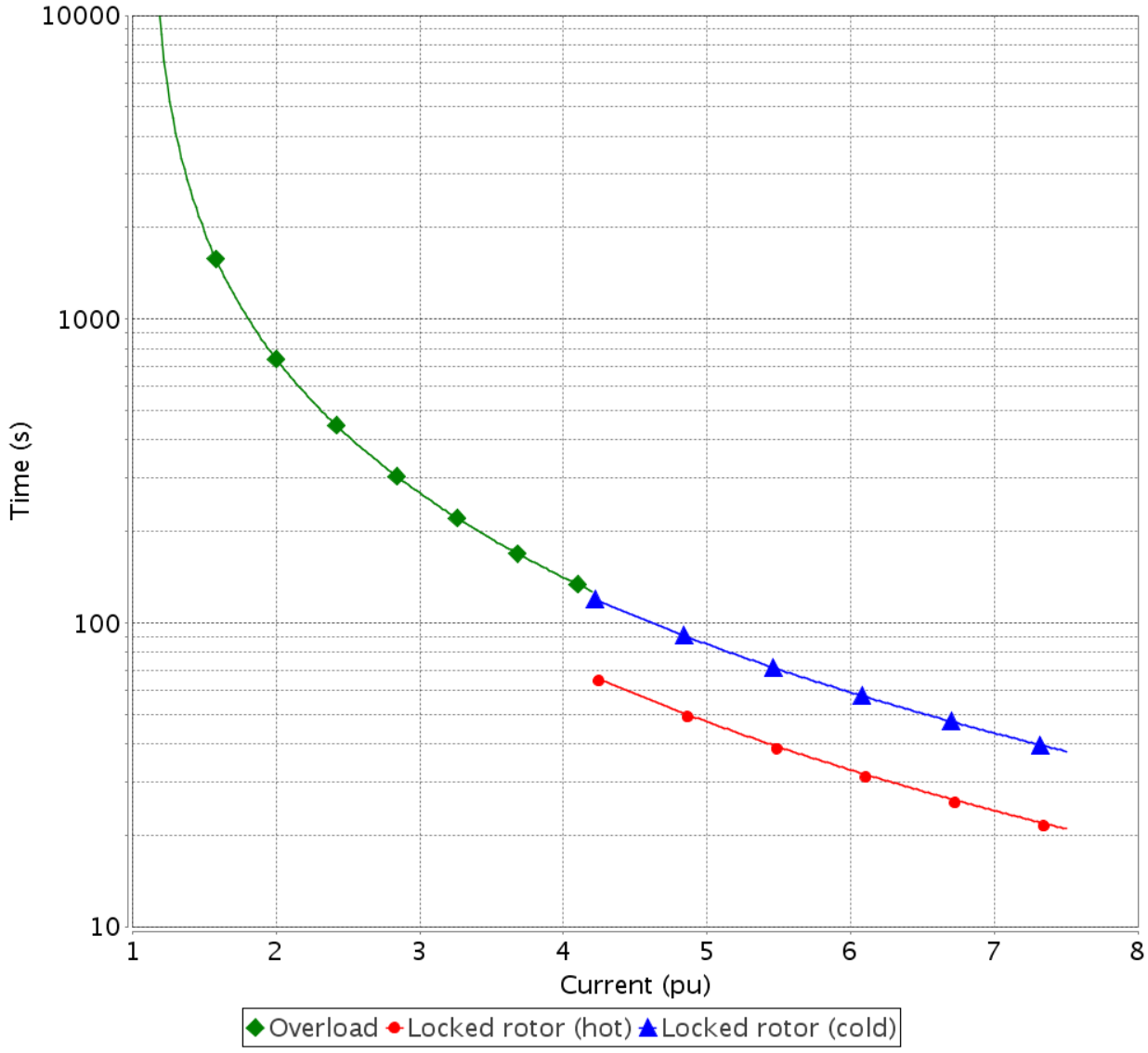
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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Product line	: W22 - IE3 Premium Efficiency



Performance	: 55 kW 230/460 V 60 Hz 4P 225S/M

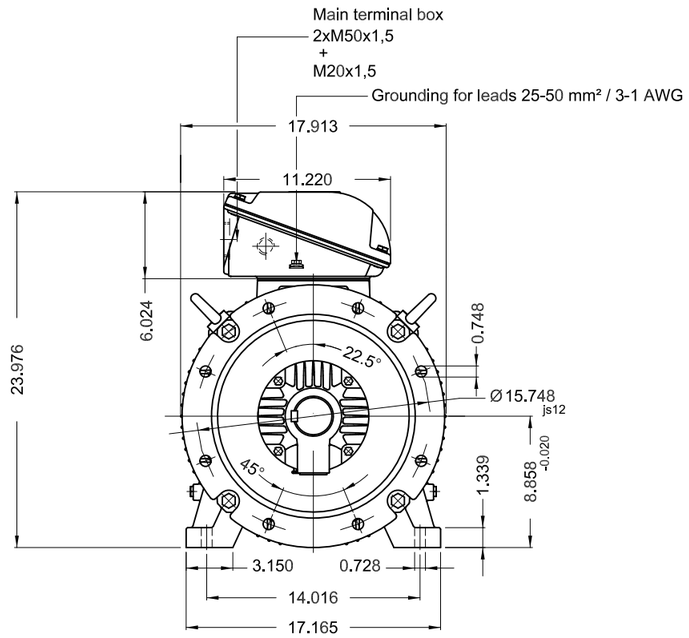
Rated current	: 170/85.1 A	Moment of inertia (J)	: 17.4 sq.ft.lb
LRC	: 7.5	Duty cycle	: S1
Rated torque	: 296 Nm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1777 rpm	Design	: N
Heating constant	: 35.8 min		
Cooling constant	: 107.4 min		

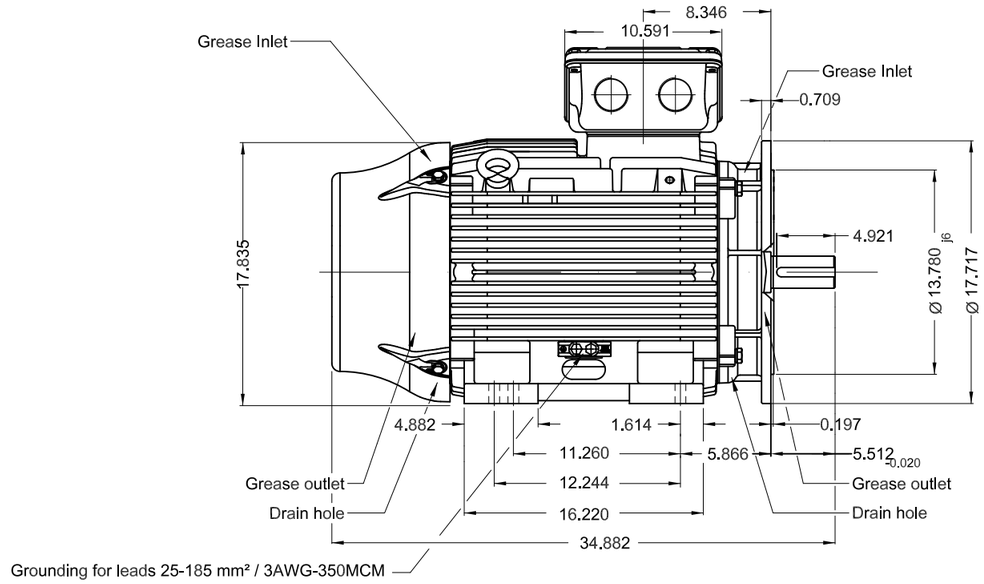
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THIS IS AN UPDATED REVISION. THE PREVIOUS ONE MUST BE DISREGARDED.



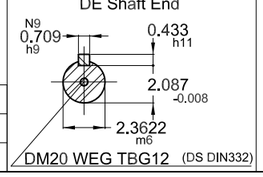


Color RAL 5009

Painting plan 203A

Mounting B35T

DE Shaft End



55 kW 04 Poles 60 Hz | A

GOL PUMP TECHNOLOGY, INC.

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	PIRWBUSER
CHECKED	
RELEASED	
REL DT.	

THREE PHASE W22 MOTOR - PREMIUM EFF
FRAME 225S/M IP55 TEFC

WMO Jaragua do Sul Product Engineering

PREVIEW

WDD

SHEET 1 / 1

Dimensions in inches

XME A3

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