

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

Motor type: GP100 FS: 405T - 4p - 100 hp -

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data without

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T _A /T _N LRT [%]	T _k /T _N BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460	Δ	60	100.00	75.00	1,780	113.00	85.10	61.10	30.00	725.0	95.4	96.0	95.8	87.0	86.0	80.0	295.0	180	200	
Frame Type: 405T			Type of constr.: (A) Foot mounted - End shield							Ins. Cl.:Standard Class F Insulation		Motor Prot.:(A) Without Protection					NEMA Des.: B		S.F.: 1.15	
Mtr. WT:1,097										Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m					kVA: G		I.P.: 55	

Mechanical data

Sound level (SPL / SWL) at 60 Hz								67.0 dB(A) / 79.0 dB(A)								Thickener								Polyurea																																																															
Octave Band Center Frequencies Hertz																Safe Stall Time Hot																25 s																																																							
250								500								1000								2000								4000								8000								Hz								Safe Stall Time Cold																35 s															
SPL@3								66.0								76.0								73.0								70.0								65.0								51.0								dB(A)								Frame material																cast iron							
Moment of inertia																23.4 Lb-ft²																Color, paint shade																Standard Paint - RAL7030																																							
Ext Load Inertia Capability:																441.0 Lb ft²																Coating (paint finish)																Standard Alkyed + Epoxy (C2)																																							
Bearings																																Ventilation Type																																																							
Bearing DE NDE																6316 Z C3 S0								6214 ZZ C3 S0								Method of cooling																TEFC																																							
Bearing_Type																Ball Bearing								Ball Bearing								Direction of rotation																Bidirectional																																							
AFBMA:																80BC03JP30								70BC02JPP30								Fan Material																Polypropylen ESD																																							
Grease																																VFD																CT: 4:1 VT: 20:1																																							
Capacity																7.50 oz								6.70 oz								Space heaters																without																																							
Grease Type:																Exxon Mobile EM																Brake:																without																																							

Terminal box

Lead Wire Connection			3 LEAD - DELTA		Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Stamped Steel
----	----	----	----	----	Cable entry	3" NPT
----	T1	T2	T3	----		

Notes:

I_L/I_N = locked rotor current / current nominal

M_L/M_N = locked rotor torque / torque nominal

M_b/M_N = break down torque / nominal torque

3) Value is valid only for DOL operation with motor design IC411

2) at rated power / at full load

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and actual data values			
	document type datasheet			document status released		customer	
	title 1LE2221-4AB21-2AA3-Z			document number			
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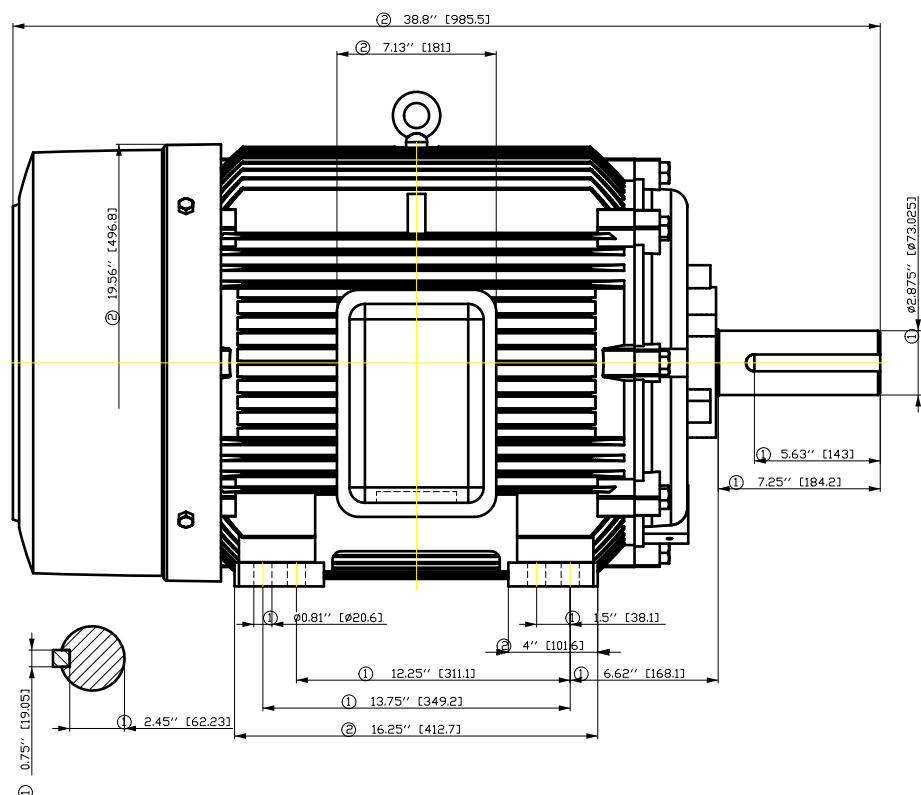
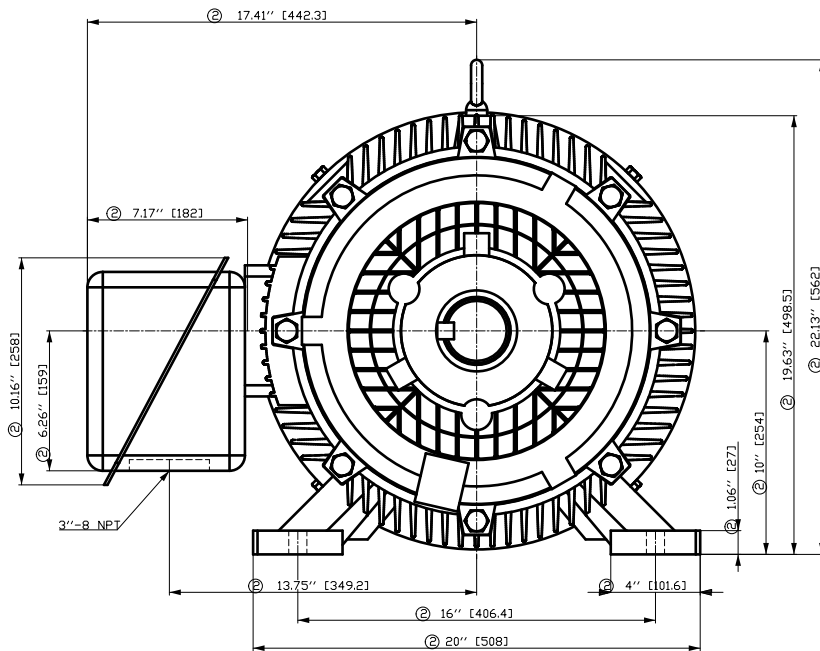
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Special design

B09	Export packing sea freight - Siemens standard	F00	Certificate of Compliance
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Notes:

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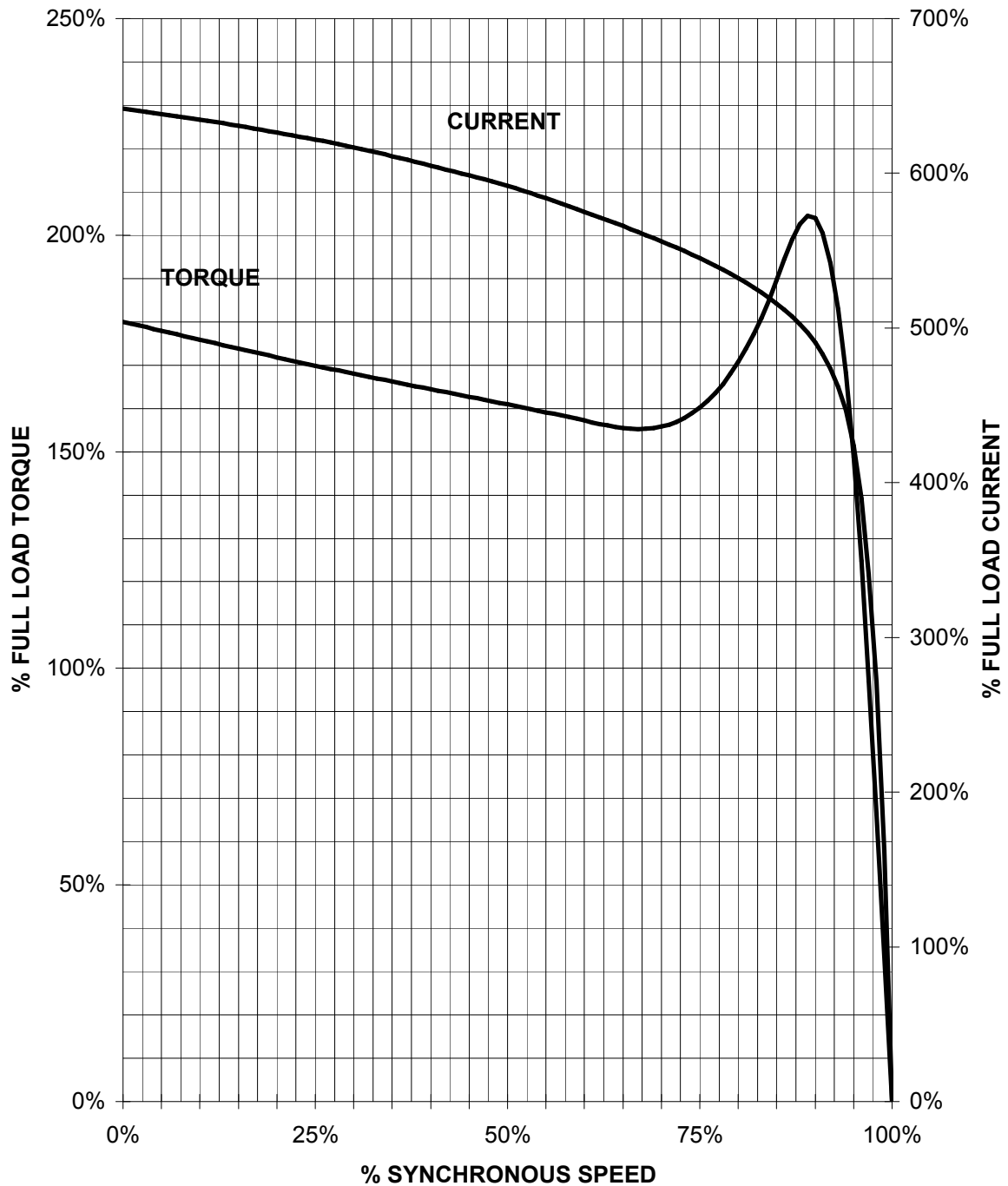
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
1LE2221-4AB21-2AA3-Z B09+F00	Author Creator Approval Department Change Order	Dimensional drawing Maßzeichnung		
SIEMENS	Doc. Date	4/22/21	Item No	Paper Size
	Revision	Index	Doc No	1st Language
			2nd Language	de
	Project No	-	Ref No	-
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SIEMENS INDUSTRY INC.

HP 100 VOLTS < 600V RPM 1800 TYPE GP100
HZ 60 PHASE 3 FRAME 405T NEMA B

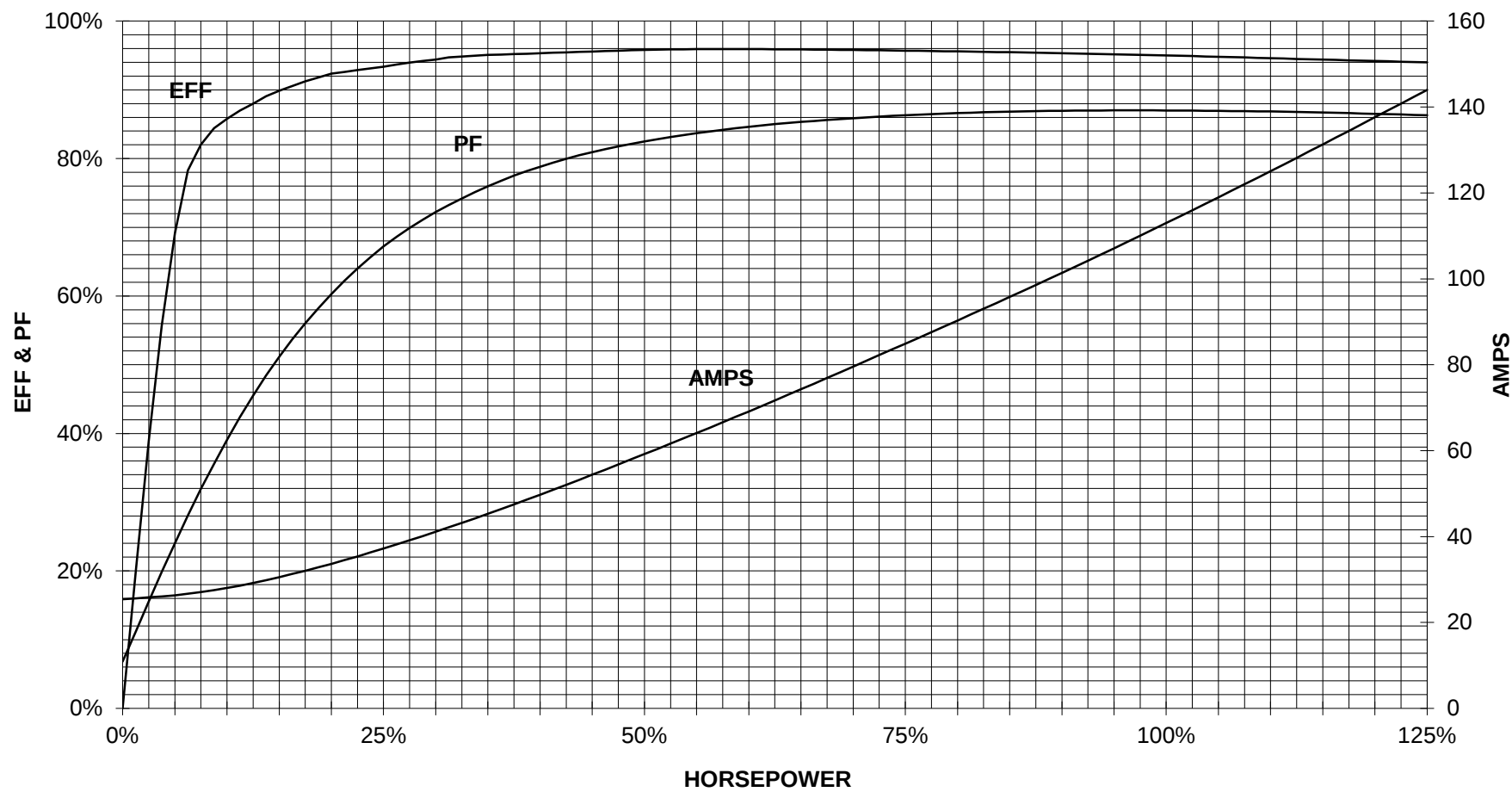
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

100 HP 1800 RPM 405T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

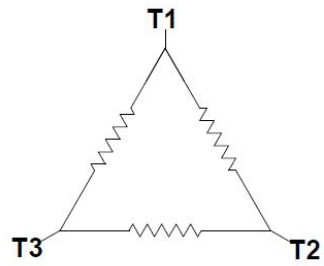
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100



CUSTOMER _____ ORDER # _____ PO # _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1

Main terminal diagram



3 LEAD DELTA				
LINES			CONN.	
L1	L2	L3		
T1	T2	T3	Δ	

responsible dep. DI MC LVM		technical reference	created by	approved by	Project			
		document type Wiring Diagram			document status free		customer	
		title 1LE2221-4AB21-2AA3-Z			document number			
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