

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													
SPL@3				66.0		76.0		73.0		70.0		65.0		51.0		dB(A)											
Moment of inertia								23.4 Lb-ft²								Frame material				cast iron							
Ext Load Inertia Capability:								441.0 Lb ft²								Color, paint shade				Standard Paint - RAL7030							
Coating (paint finish)								Standard Alkyed + Epoxy (C2)								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	3) Value is valid only for DOL operation with motor design IC411 2) at rated power / at full load
M _L /M _N = locked rotor torque / torque nominal	
M _b /M _N = break down torque / nominal torque	

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

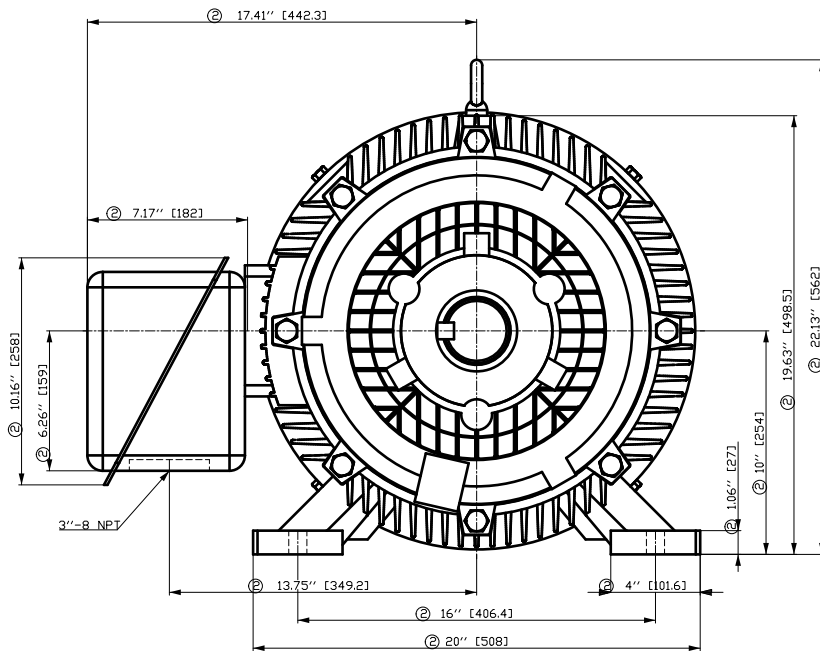
Motor type: GP100 FS: 405T - 4p - 100 hp -

Special design

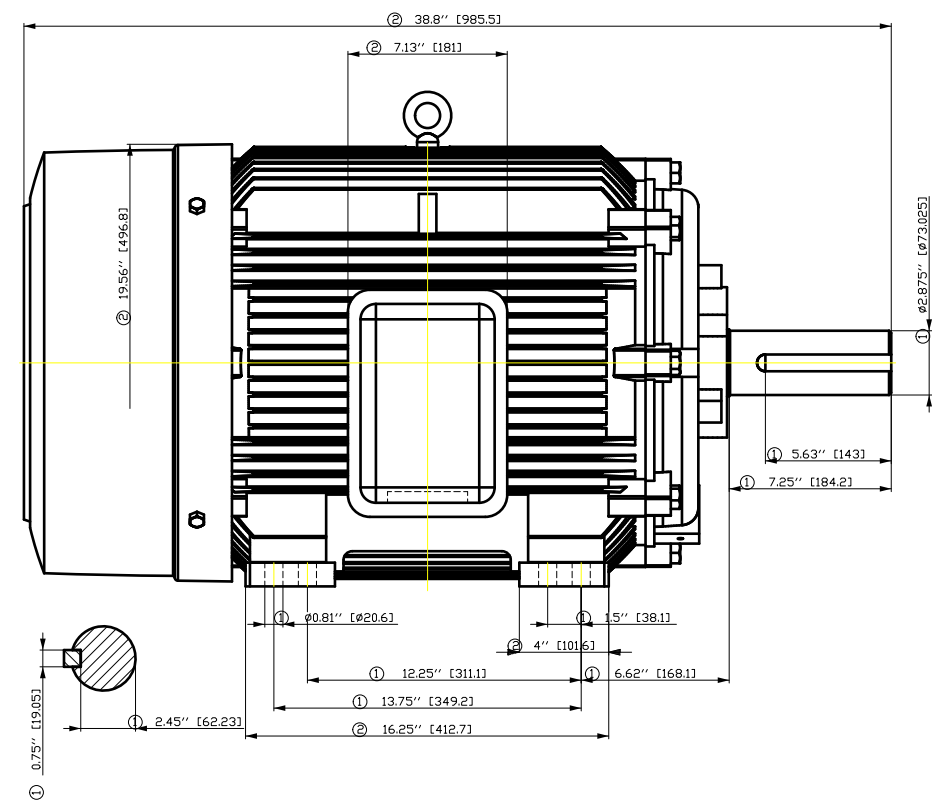
B09	Export packing sea freight - Siemens standard
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Notes:

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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.

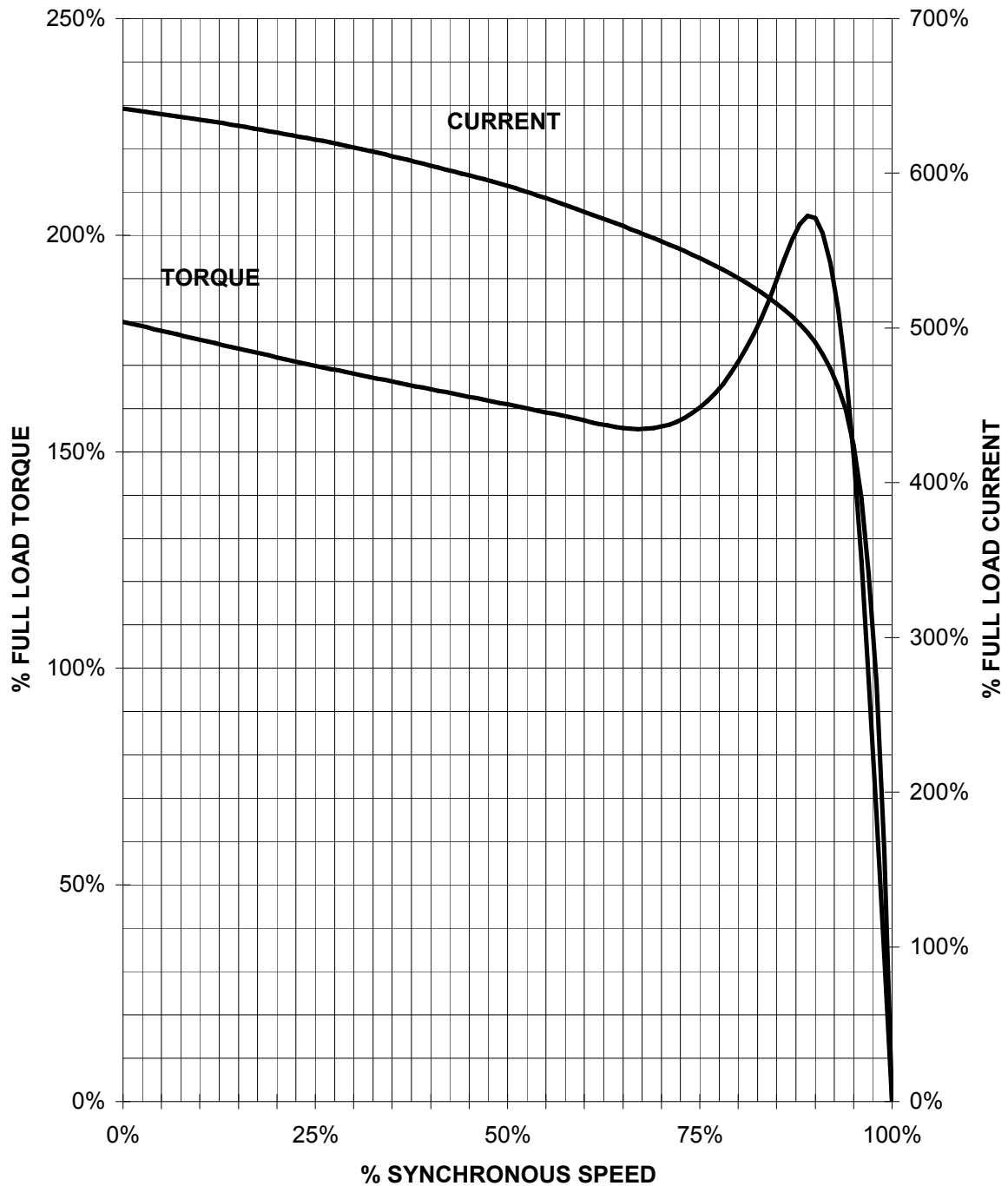


Tolerance	Surface	Material	Weight	Scale
1LE2221-4AB21-2AA3-Z B09	Author Creator Approval Department Change Order	DTK	MLFB	mm
SIEMENS	Doc. State Revision	4/21/21 Index RS	Item No Doc No	Paper Size 1st Language 2nd Language
© Siemens AG 2018	Project No	-	Ref No	-
			Doc Type	A3
			Sheet	1 of 1

SIEMENS INDUSTRY INC.

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

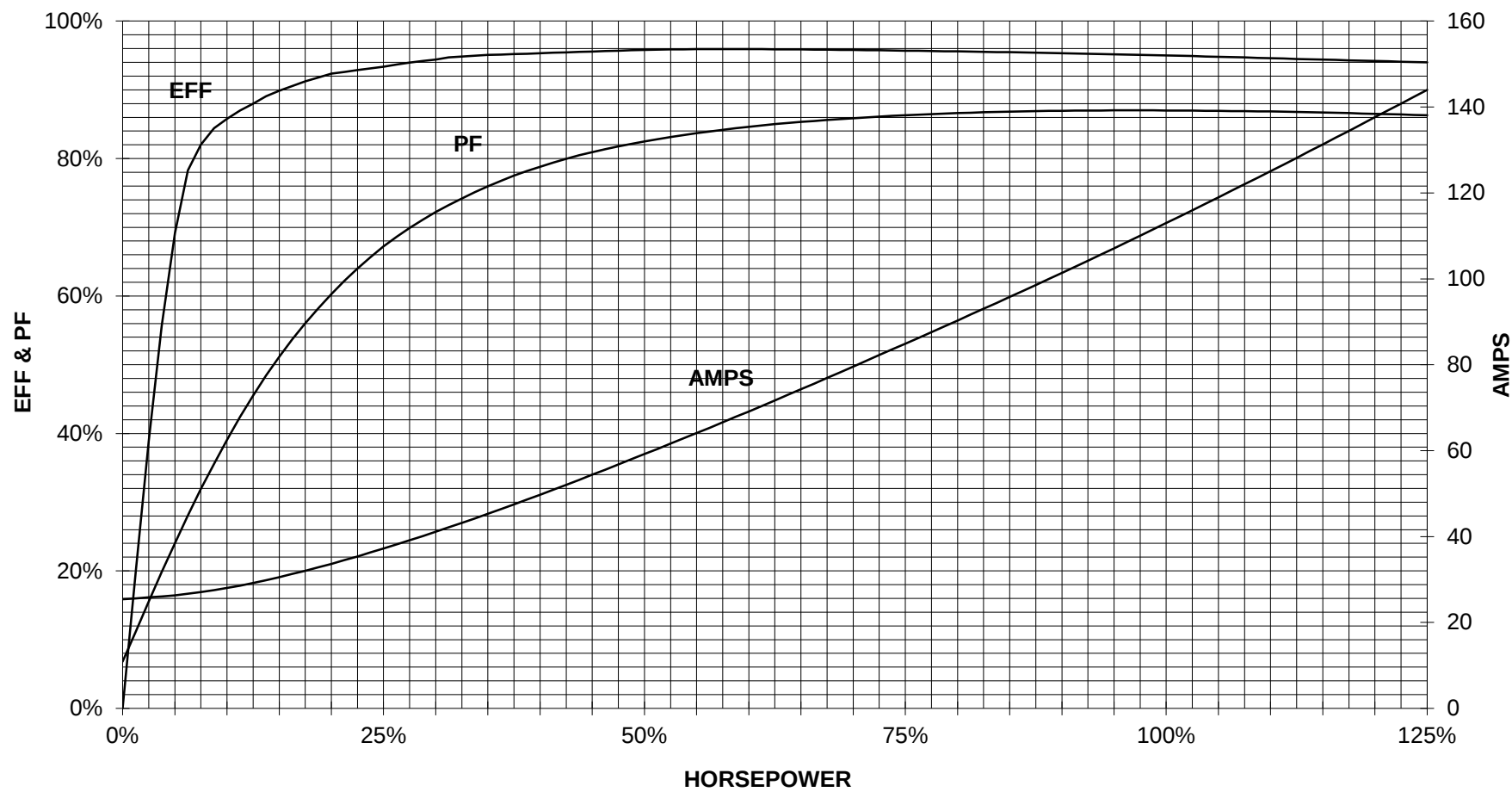
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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

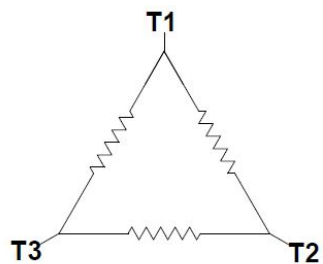
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100



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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