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

Motor type: **GP100** **FS: B445T - 6p - 125 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] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	2/4	Pwr. Factor Load [%] 4/4	3/4	2/4	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
575	Δ	60	125.00	90.00	1,200	115.20	89.80	66.50	38.40	726.4	95.0	95.4	95.1	85.0	82.0	74.0	554.0	160	200

Frame Type: B445T	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:1,766		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	IP 54

Mechanical data

Sound level (SPL / SWL) at 60 Hz	66.0 dB(A) / 77.0 dB(A)

Octave Band Center Frequencies Hertz	250	500	1000	2000	4000	8000	Hz
SPL@3	58.0	61.0	61.0	59.0	56.0	41.0	dB(A)

Moment of inertia	58.5 Lb-ft²
Ext Load Inertia Capability:	145.0 Lb ft²

Bearings

Bearing DE | NDE	6318 Z C3 S0	6216 ZZ C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	90BC03JP30	80BC02JPP30

Grease

Capacity	10.4 oz	7.5 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	25 s
Safe Stall Time Cold	35 s
Frame material	cast iron
Color, paint shade	Standard Paint - RAL7030
Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Ventilation Type	
Method of cooling	TEFC
Direction of rotation	Bidirectional
Fan Material	Polypropylen ESD
VFD	CT: 4:1 VT: 20:1
Space heaters	without
Brake:	without

Terminal box

Lead Wire Connection				
Voltage	L1	L1	L1	Connected together
-- -- --	-- -- --	-- -- --	-- -- --	-- -- --
-- -- --	T1	T2	T3	-- -- --

Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Material of terminal box	Cast Iron
Cable entry	3" NPT

Notes:

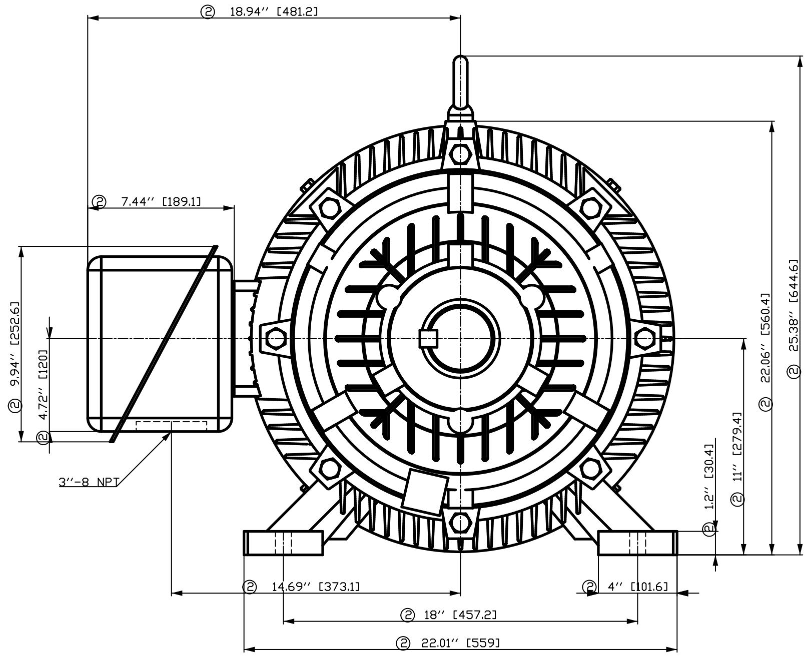
I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

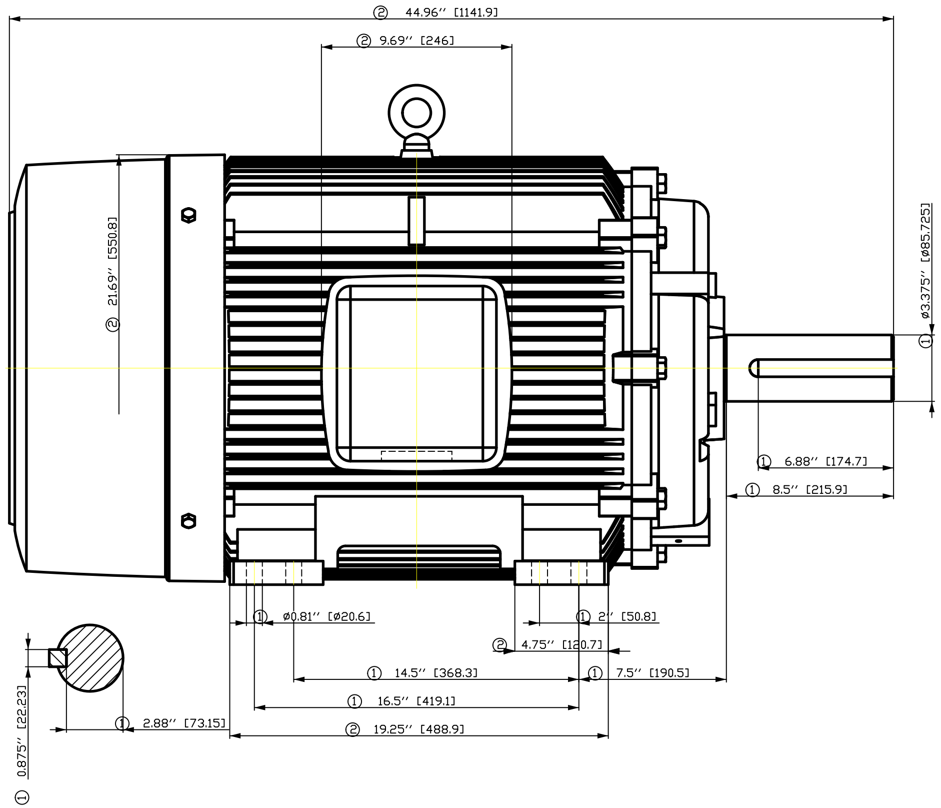
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

responsible dep.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies*

SIEMENS

document type	document status	customer		
datasheet	released			
title	document number			
1LE2221-4EC21-3AA3				
	rev.	creation date	language	Page
	01	2022-04-08 23:10	en	1/1





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.

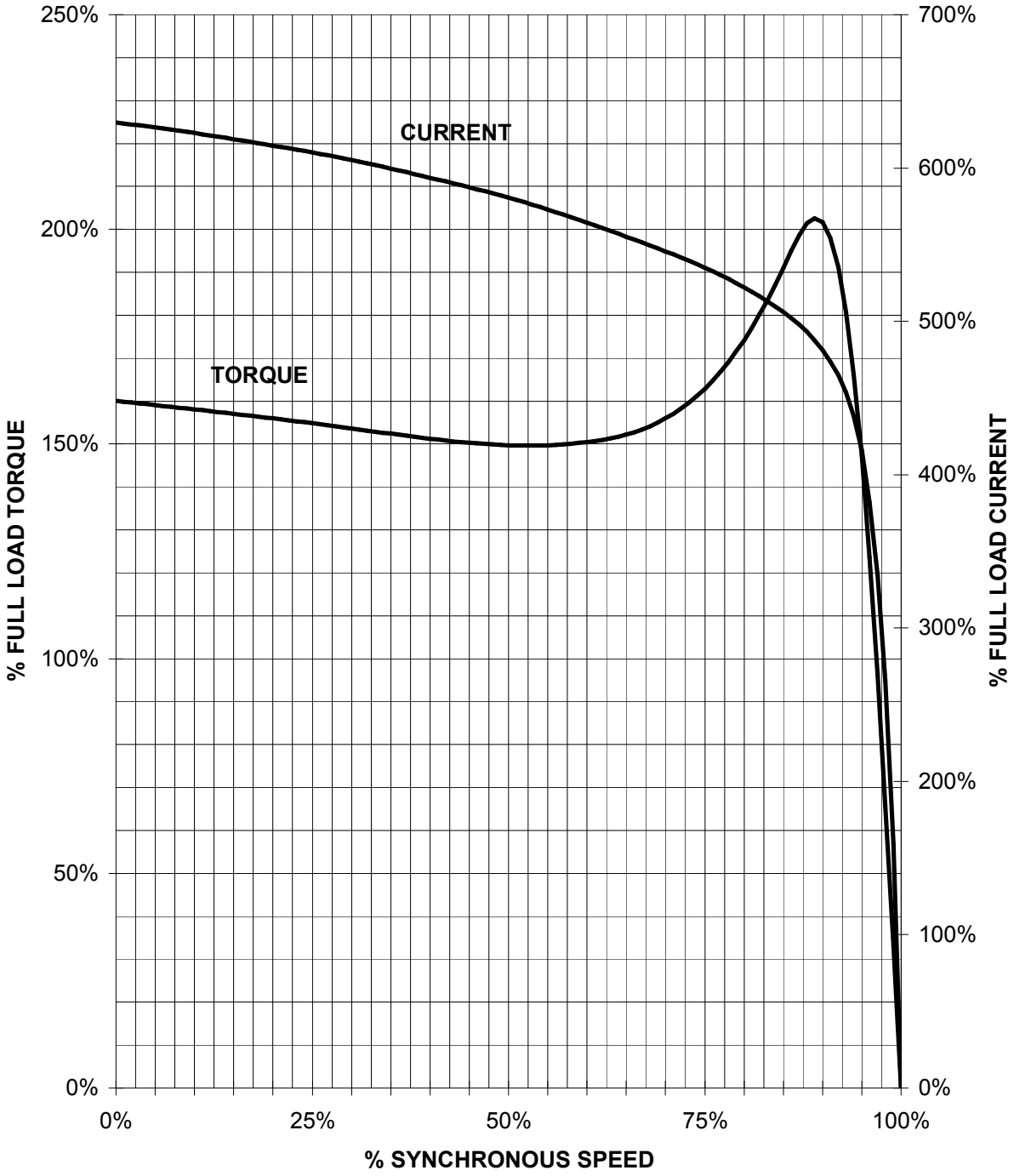
③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
			-	mm
1LE2221-4EC21-3AA3 -	Author	Dimensional drawing MaÇzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc Type	
SIEMENS	Doc State 4/8/22	Item No	Paper Size A3	
	Revision Index RS	Doc No	1st Language en 2nd Language de	
© Siemens AG 2018	Project No -	Ref No -	Sheet 1 of 1	

SIEMENS INDUSTRY, INC.

HP	125	VOLTS	< 600V	RPM	1200	TYPE	GP100
HZ	60	PHASE	3	FRAME	B445T	NEMA	B

TORQUE & CURRENT VS. SPEED



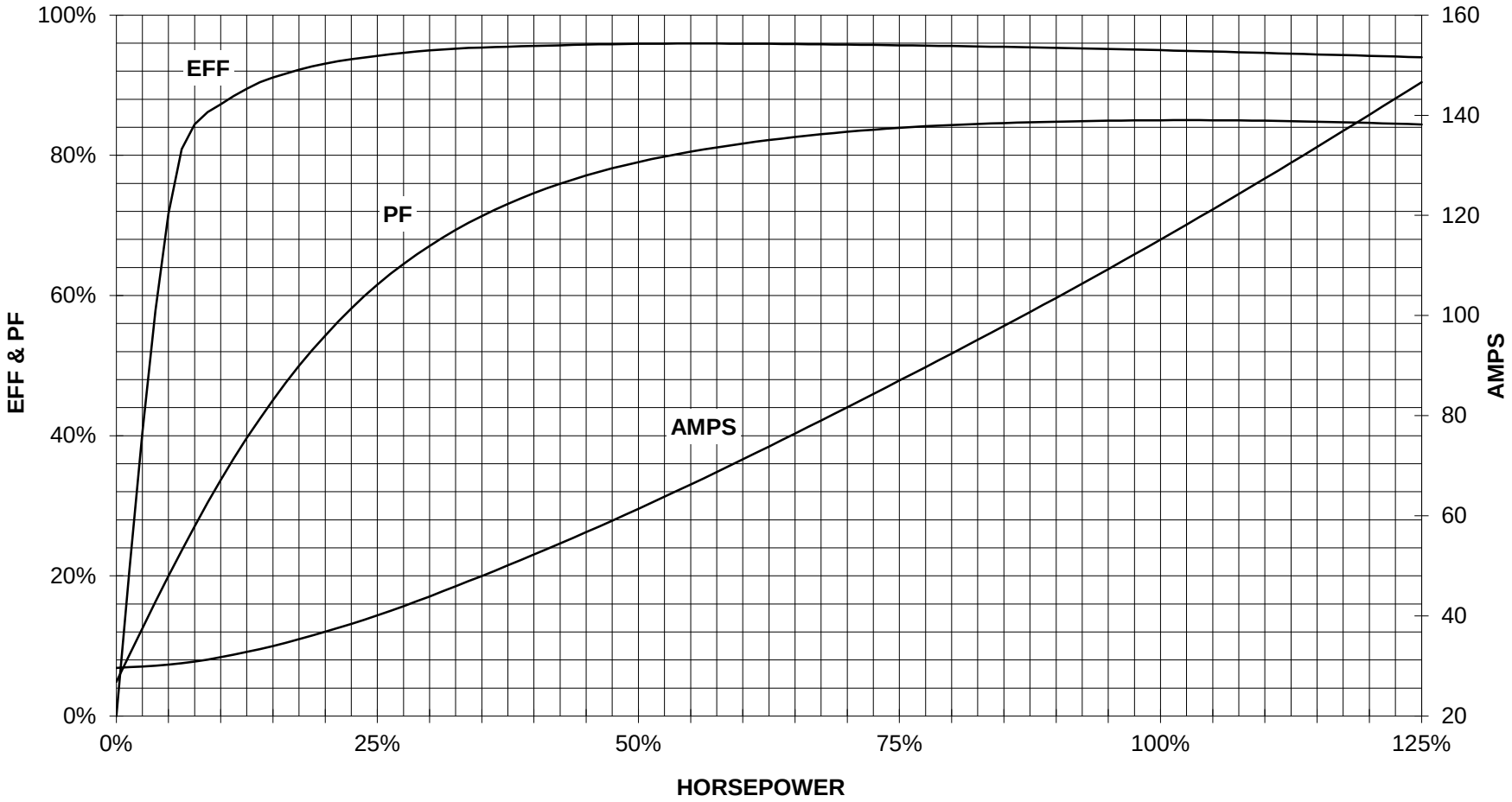
CUSTOMER: _____ ORDER#: _____

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

125 HP 1200 RPM B445T FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.

PERFORMANCE CURVE
GP100

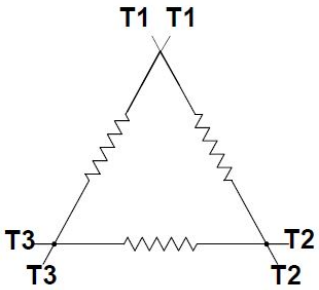


CUSTOMER_____ ORDER #_____ PO #_____

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

REV. 1

Main terminal diagram



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

responsible dep.	technical reference	created by	approved by	Project	
DI MC LVM					
SIEMENS	document type: Wiring Diagram		document status: free	customer	
	title: 1LE2221-4EC21-3AA3		document number		
		rev.: 01	creation date: 12/03/2019	language: en	Page: 1/1