

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

Motor type: **GP100** FS: **145T - 2p - 2 hp -**

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

## Electrical data

U [V]	$\Delta/Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T <sub>A</sub> /T <sub>N</sub> LRT [%]	T <sub>k</sub> /T <sub>N</sub> BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460	Y	60	2.00	1.50	3,600	2.50	2.00	1.60	1.20	23.0	85.5	85.7	84.0	87.6	81.3	69.0	2.9	255	431	
230	YY	60	2.00	1.50	3,600	5.00	4.03	3.23	2.40	46.0	85.5	85.7	84.0	87.6	81.3	69.0	2.9	255	431	
400	Y	50	1.50		2,933	2.25	1.88	1.57	1.28	20.2	82.8	82.7	80.8	81.8	73.6	59.9	2.7	295	344	
200	YY	50	1.50		2,933	4.50	3.76	3.14	2.56	40.3	82.8	82.7	80.8	81.8	73.6	59.9	2.7	295	344	

without

## Mechanical data

Sound level (SPL / SWL) at 60 Hz	64.0 dB(A) / 76.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	13 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	18 s
SPL@3	44.0	52.0	62.0	59.0	54.0	46.0	dB(A)	Frame material	cast iron
Moment of inertia	0.1 Lb-ft <sup>2</sup>		Color, paint shade	Standard Paint - RAL7030					
Ext Load Inertia Capability:	24.0 Lb ft <sup>2</sup>		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
<b>Bearings</b>			<b>Ventilation Type</b>						
Bearing DE   NDE	6205 ZZ C3 S0		6205 ZZ C3 S0	Method of cooling	TEFC				
Bearing_Type	Ball Bearing		Ball Bearing	Direction of rotation	Bidirectional				
AFBMA:	25BC02JPP30		25BC02JPP30	Fan Material	Polypropylen				
<b>Grease</b>			VFD	CT: 4:1 VT: 20:1					
Capacity	0.1 oz		0.1 oz	Space heaters	without				
Grease Type:	Exxon Mobile EM		Brake:	without					


## Terminal box

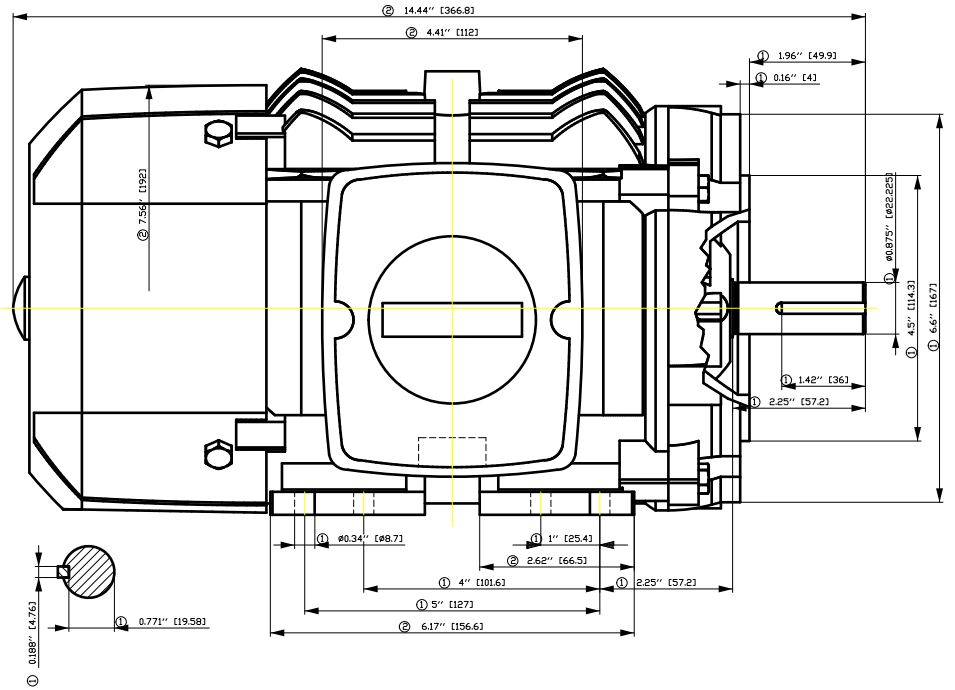
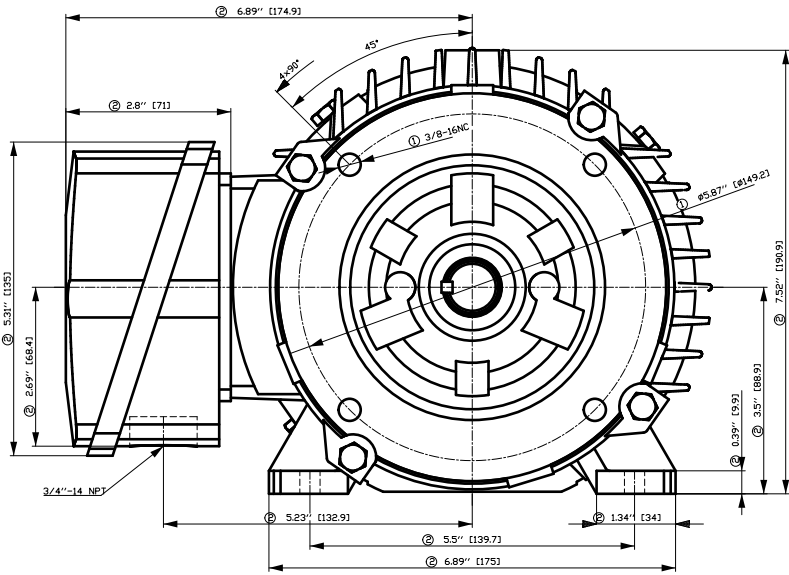
Lead Wire Connection	9 LEAD - WYE				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Aluminium
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Cable entry	.75" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

## Notes:

I<sub>L</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>L</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>d</sub>/M<sub>N</sub> = 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	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>	
	document type datasheet	document status released	customer		
	title 1LE2221-1AA31-4EA3	document number			
© Siemens AG 2022	rev. 01	creation date 2022-04-08 02:58	language en	Page 1/1	



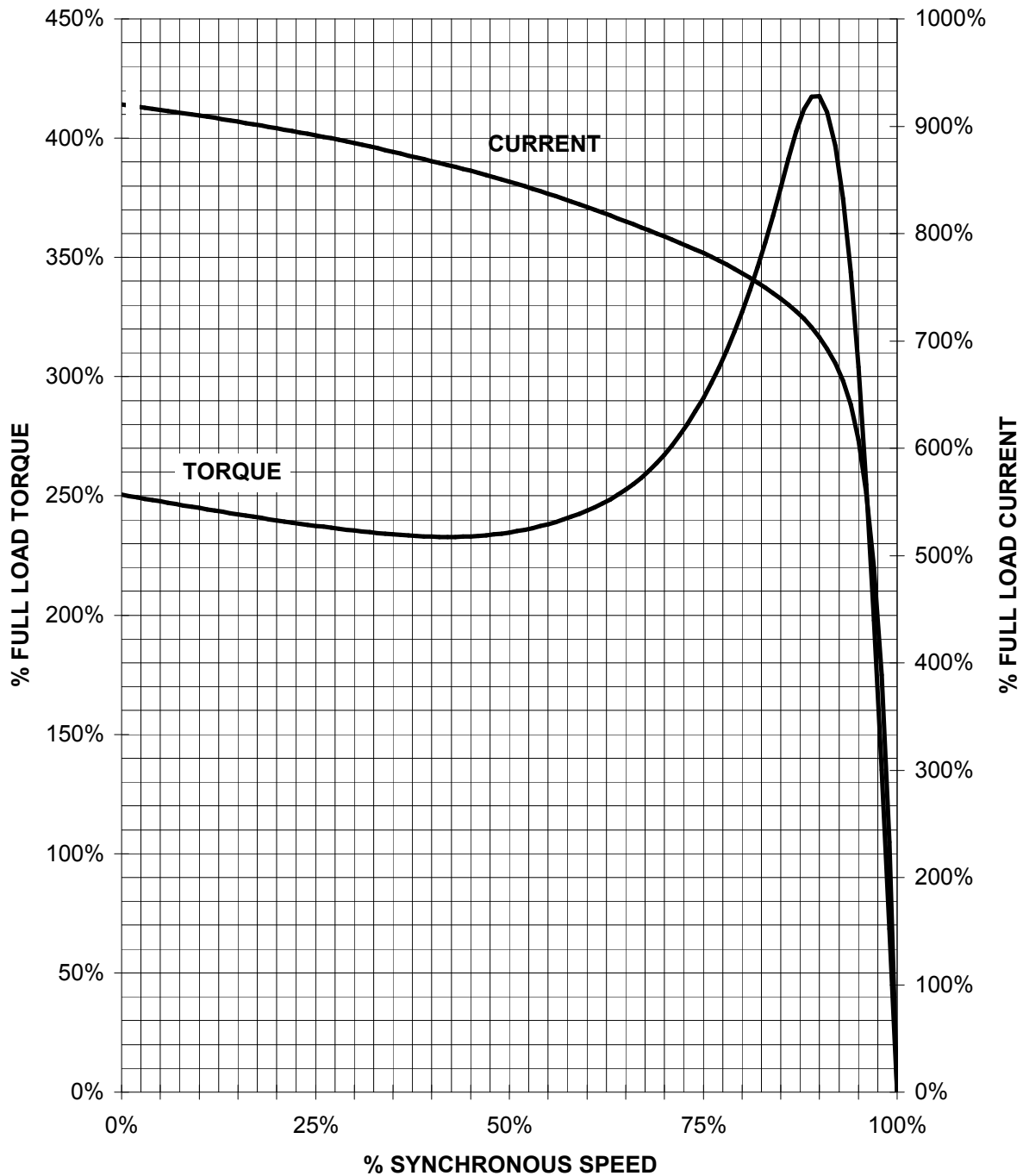
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
F5ÖGGGF-ÖGH-FÖ ÖGH	Author	ÖGH	ÖGH	{ {
ÖGH	Creator	ÖVS	ÖGH	{ {
	Approval	TGH: ÖGH		
	Department			
	Change Order	MFB	Doc Type	/
<b>SIEMENS</b>	Doc. State	I ÖGG	Item No	Paper Size
© Siemens AG 2018	Revision	Index RS	Doc No	1st Language
	Project No	ÖGH	Ref No	2nd Language
				Sheet
				F of F

# SIEMENS INDUSTRY, INC.

HP 2 VOLTS < 600V RPM 3600 TYPE GP100  
HZ 60 PHASE 3 FRAME 145T NEMA B

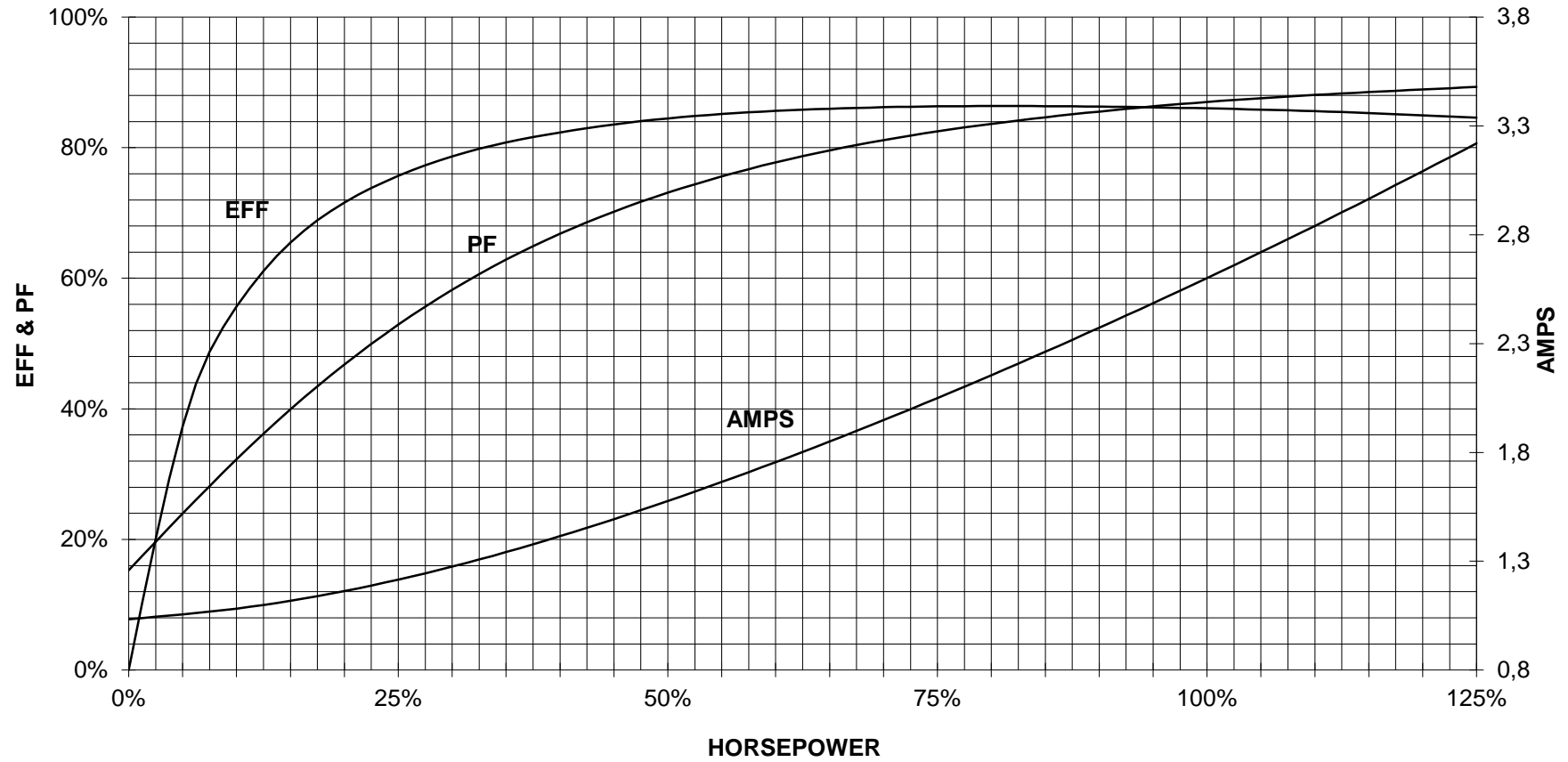
## TORQUE & CURRENT VS. SPEED



CUSTOMER: \_\_\_\_\_ ORDER#: \_\_\_\_\_

2 HP 3600 RPM 145T 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



9 LEAD WYE						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T7	T2 T6	T3 T9	T4 T5 T6	YY	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y	

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
<b>SIEMENS</b>	document type Wiring Diagram	document status free		customer
	title 1LE2221-1AA31-4EA3	document number		
© Siemens AG 2019	rev. 01	creation date 12/03/2019	language en	Page 1/1