

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

Motor type: **GP100A** FS: 256T - 6p - 10 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				
575	Y	60	10.00	7.50	1,200	10.80	8.60	6.70	5.00	64.8	91.0	91.6	91.4	76.2	71.6	61.0	45.0	164	249	
Frame Type: 256T		Type of constr.: ( E ) Foot mounted - C-Face				Ins. Cl.:Standard Class F Insulation		Motor Prot.:(A) Without Protection			NEMA Des.: B		S.F.: 1.15							
Mtr. WT:294						Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: H		IP 55							

## Mechanical data

Sound level (SPL / SWL) at 60 Hz	55.0 dB(A) / 67.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	18 s					
250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	38 s	
SPL@3	40.0	42.0	51.0	46.0	51.0	28.0	dB(A)	Frame material	aluminum
Moment of inertia	1.7 Lb-ft <sup>2</sup>		Color, paint shade	Standard Paint - RAL7030					
Ext Load Inertia Capability:	137.0 Lb ft <sup>2</sup>		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
<b>Bearings</b>			<b>Ventilation Type</b>						
Bearing DE   NDE	6209 ZZ C3 S0		6209 ZZ C3 S0						
Bearing_Type	Ball Bearing		Ball Bearing						
AFBMA:	45BC02JPP30		45BC02JPP30						
<b>Grease</b>			Method of cooling						
Capacity	0.5 oz		0.5 oz						
Grease Type:	Exxon Mobile EM		VFD						
			Space heaters						
			Brake:						


## Terminal box

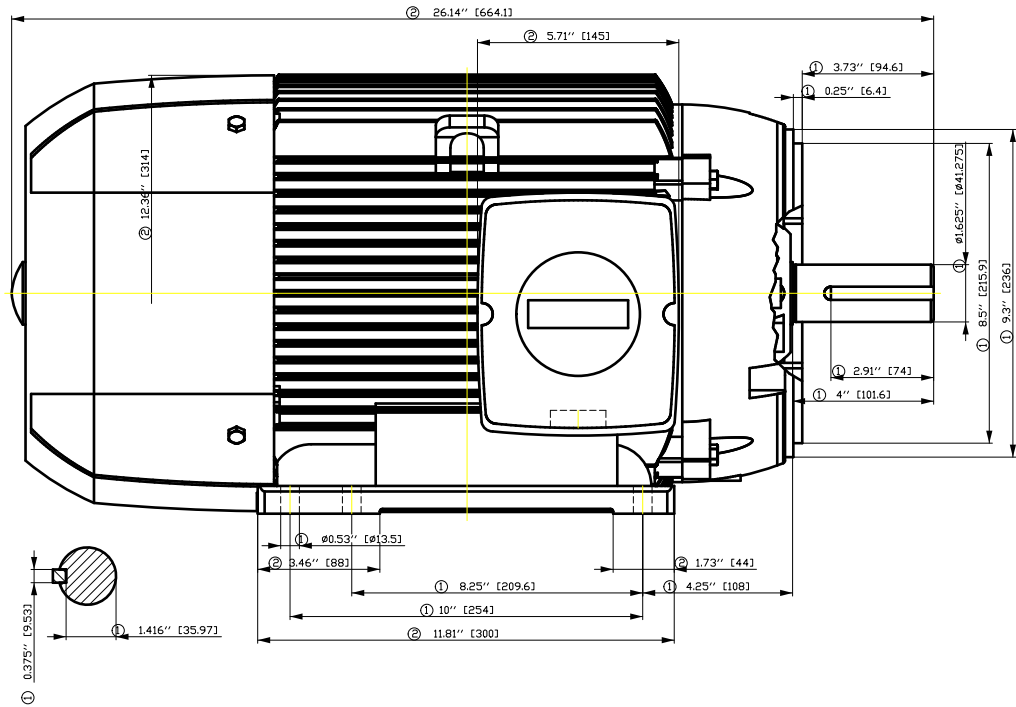
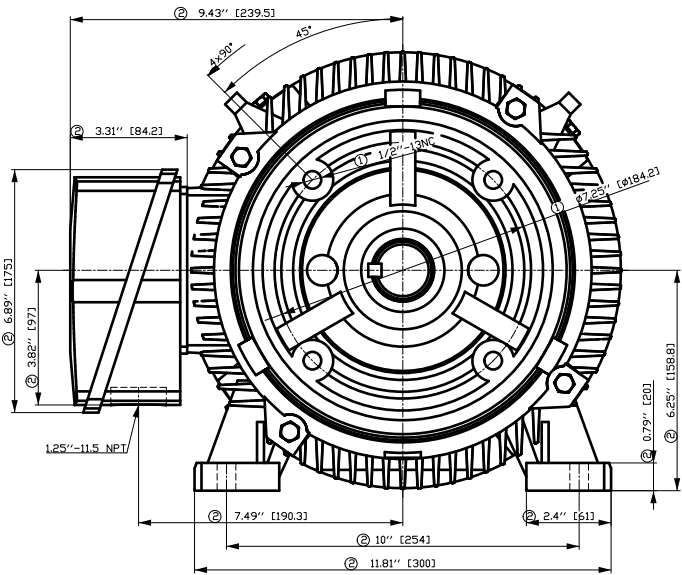
Lead Wire Connection	3 LEAD - WYE				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Aluminium
----	----	----	----	----	Cable entry	1.25" NPT
----	T1	T2	T3	----		

### Notes:

I<sub>r</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>r</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>b</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 1LE2121-2BC21-3EA3	document number					
© Siemens AG 2022	rev. 01	creation date 2022-04-08 19:39	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
F50GFGE00GFH00EH	Author	ÖS	E	
E	Creator			
	Approval			
	Department			
	Change Order	MFB		Doc Type
	Doc State	I 0000		Paper Size
	Revision	Index RS		1st Language
				2nd Language
© Siemens AG 2018	Project No	E	Ref No	E
				Sheet F of F

刀线管  
用转为  
用文全  
用图  
用积

刀线管  
用转为  
用文全  
用图  
用积

刀线管  
用转为  
用文全  
用图  
用积

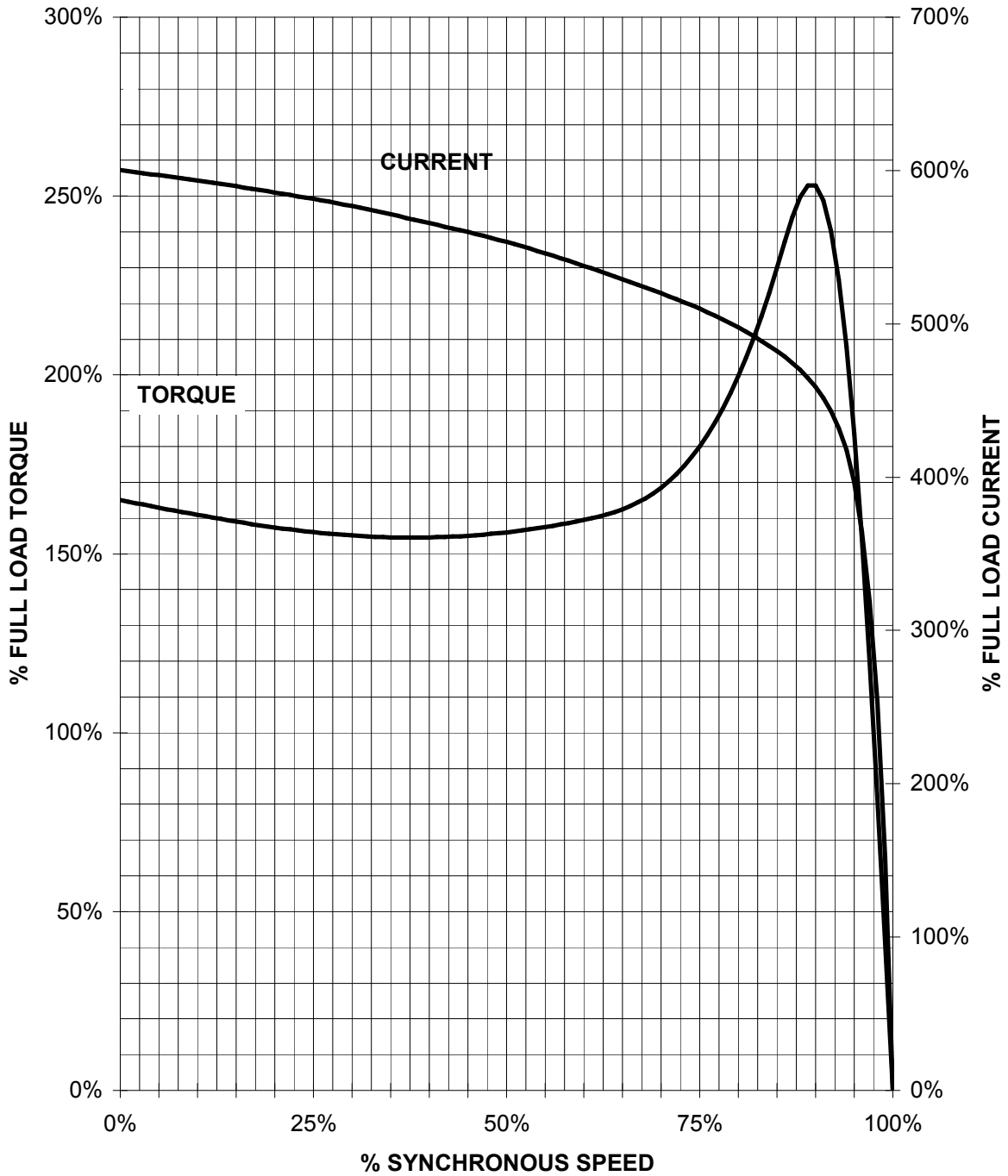
刀线管  
用转为  
用文全  
用图  
用积

刀线管  
用转为  
用文全  
用图  
用积

# SIEMENS INDUSTRY, INC.

HP 10 VOLTS < 600V RPM 1200 TYPE GP100A  
HZ 60 PHASE 3 FRAME 256T NEMA B

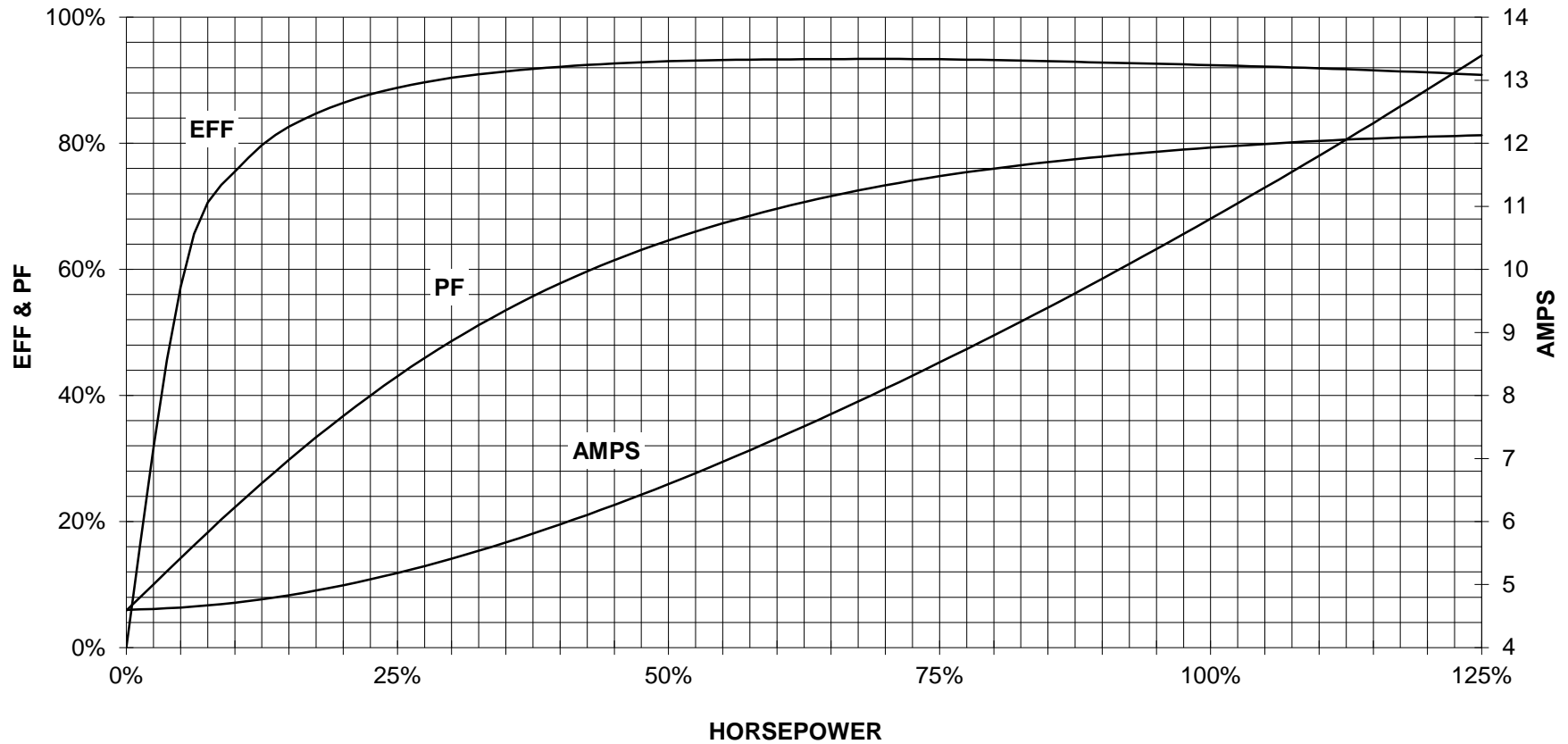
## TORQUE & CURRENT VS. SPEED



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

10 HP 1200 RPM 256 FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

**SIEMENS INDUSTRY, INC.**  
**PERFORMANCE CURVE**  
**GP100A NP**



CUSTOMER \_\_\_\_\_ ORDER # \_\_\_\_\_ PO # \_\_\_\_\_

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

REV. 1

Main terminal diagram



3 LEAD WYE			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Y

responsible dep.  
DI MC LVM

technical reference

created by

approved by

Project

**SIEMENS**

document type  
Wiring Diagram

title  
1LE2121-2BC21-3EA3

document status  
free

document number

customer