

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

Motor type: **GP100** FS: **324T - 4p - 40 hp -**

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

Remarks

## Electrical data without

U [V]	$\Delta/Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					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	LRC	4/4	3/4	2/4	4/4	3/4	2/4			
460	$\Delta$	60	40.00	30.00	1,780	46.00	36.00	26.50	15.00	290.0	94.1	94.1	94.3	86.0	83.0	75.0	118.0	180	231
230	$\Delta\Delta$	60	40.00	30.00	1,780	92.00	71.93	52.96	30.00	580.0	94.1	94.1	94.3	86.0	83.0	75.0	118.0	180	231

Frame Type: 324T	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: 636		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	64.0 dB(A) / 75.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	22 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	45 s
SPL@3	52.0	59.0	59.0	57.0	53.0	50.0	dB(A)	Frame material	cast iron
Moment of inertia	9.3 Lb-ft <sup>2</sup>							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	189.0 Lb ft <sup>2</sup>							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
<b>Bearings</b>								<b>Ventilation Type</b>	
Bearing DE   NDE	6312 Z C3 S0			6210 ZZ C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bidirectional	
AFBMA:	60BC03JP30			50BC02JPP30			Fan Material	Polypropylen ESD	
<b>Grease</b>								VFD	CT: 4:1 VT: 20:1
Capacity	5.50 oz			2.30 oz			Space heaters	without	
Grease Type:	Exxon Mobile EM							Brake:	without

## Terminal box


Lead Wire Connection	9 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
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	----	Cable entry	2.5" 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 1LE2221-3AB11-6AA3-Z 809	document number		
© Siemens AG 2021	rev. 01	creation date 2021-04-20 14:48	language en	Page 1/2


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

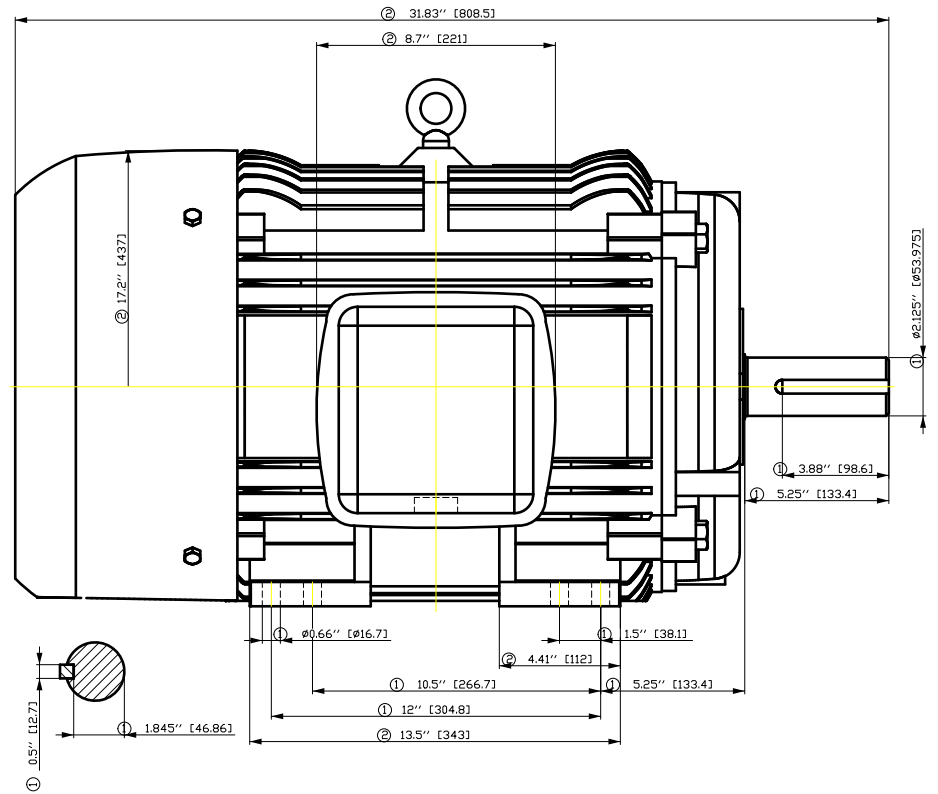
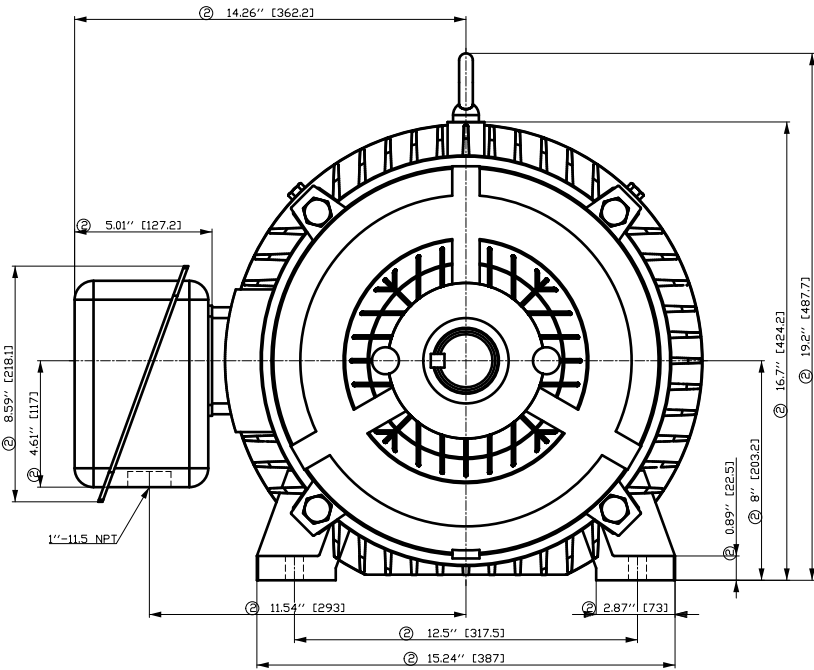
Motor type: GP100 FS: 324T - 4p - 40 hp -

**Special design**

B09	Export packing sea freight - Siemens standard

**Notes:**

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 unless</i>
	document type datasheet	document status released		customer
	title 1LE2221-3AB11-6AA3-Z B09	document number		
© Siemens AG 2021	rev. 01	creation date 2021-04-20 14:48	language en	Page 2/2



- 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.

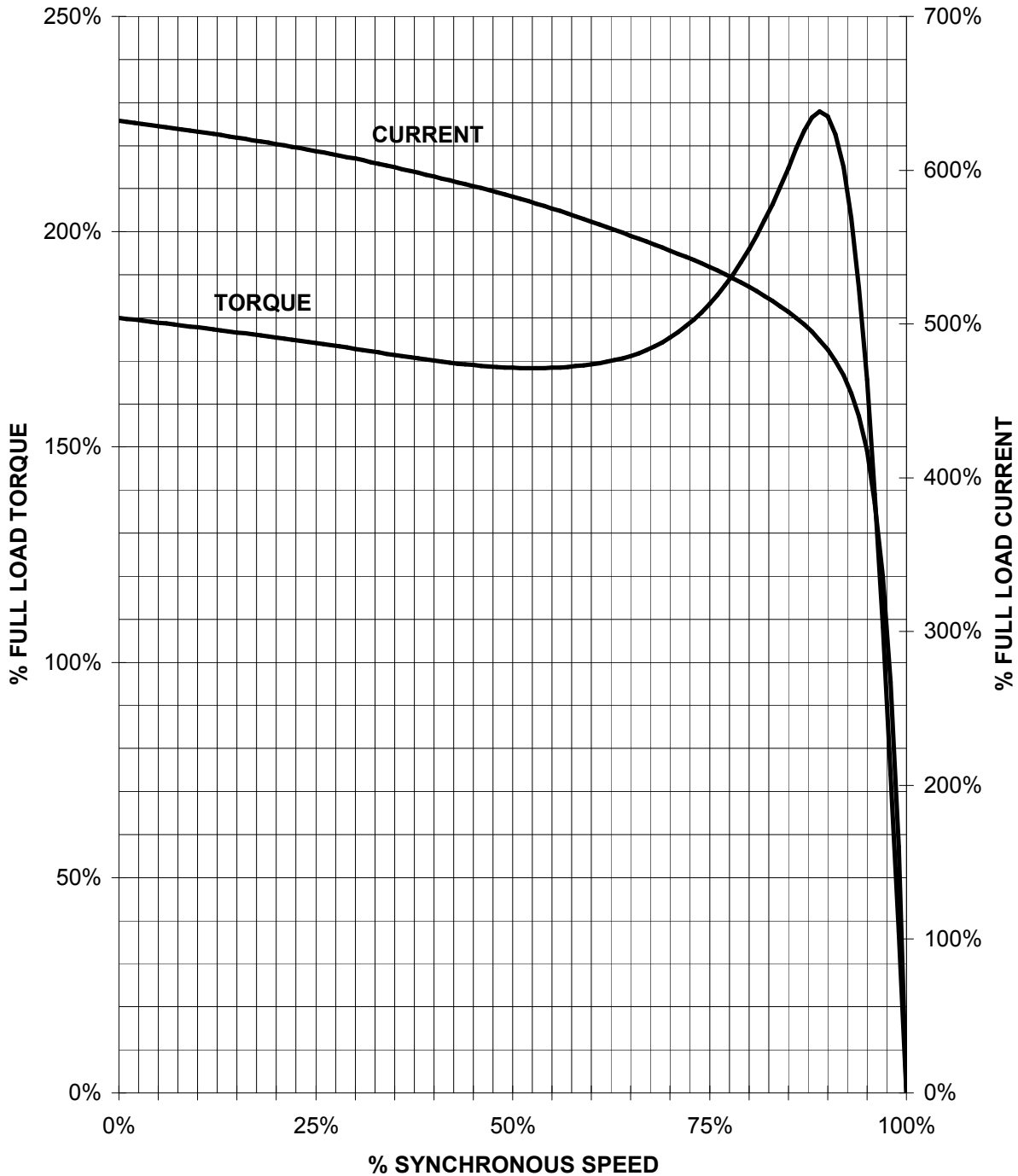
Tolerance	Surface	Material	Weight	Scale
F50GGGF-00FF0000	Author	ÖV	1	1:1
ÖV	Creator	ÖV	1	1:1
	Approval	T	1	1:1
	Department		1	1:1
	Change Order	MFB	1	1:1
	Doc. State	1	1	1:1
	Revision	Index RS	1	1:1
© Siemens AG 2018	Project No	1	1	1:1

01) 02) 03) 04) 05) 06) 07) 08) 09) 10) 11) 12) 13) 14) 15) 16) 17) 18) 19) 20) 21) 22) 23) 24) 25) 26) 27) 28) 29) 30) 31) 32) 33) 34) 35) 36) 37) 38) 39) 40) 41) 42) 43) 44) 45) 46) 47) 48) 49) 50) 51) 52) 53) 54) 55) 56) 57) 58) 59) 60) 61) 62) 63) 64) 65) 66) 67) 68) 69) 70) 71) 72) 73) 74) 75) 76) 77) 78) 79) 80) 81) 82) 83) 84) 85) 86) 87) 88) 89) 90) 91) 92) 93) 94) 95) 96) 97) 98) 99) 100)

# SIEMENS INDUSTRY, INC.

HP 40    VOLTS < 600V    RPM 1800    TYPE GP100  
HZ 60    PHASE 3    FRAME 324T    NEMA B

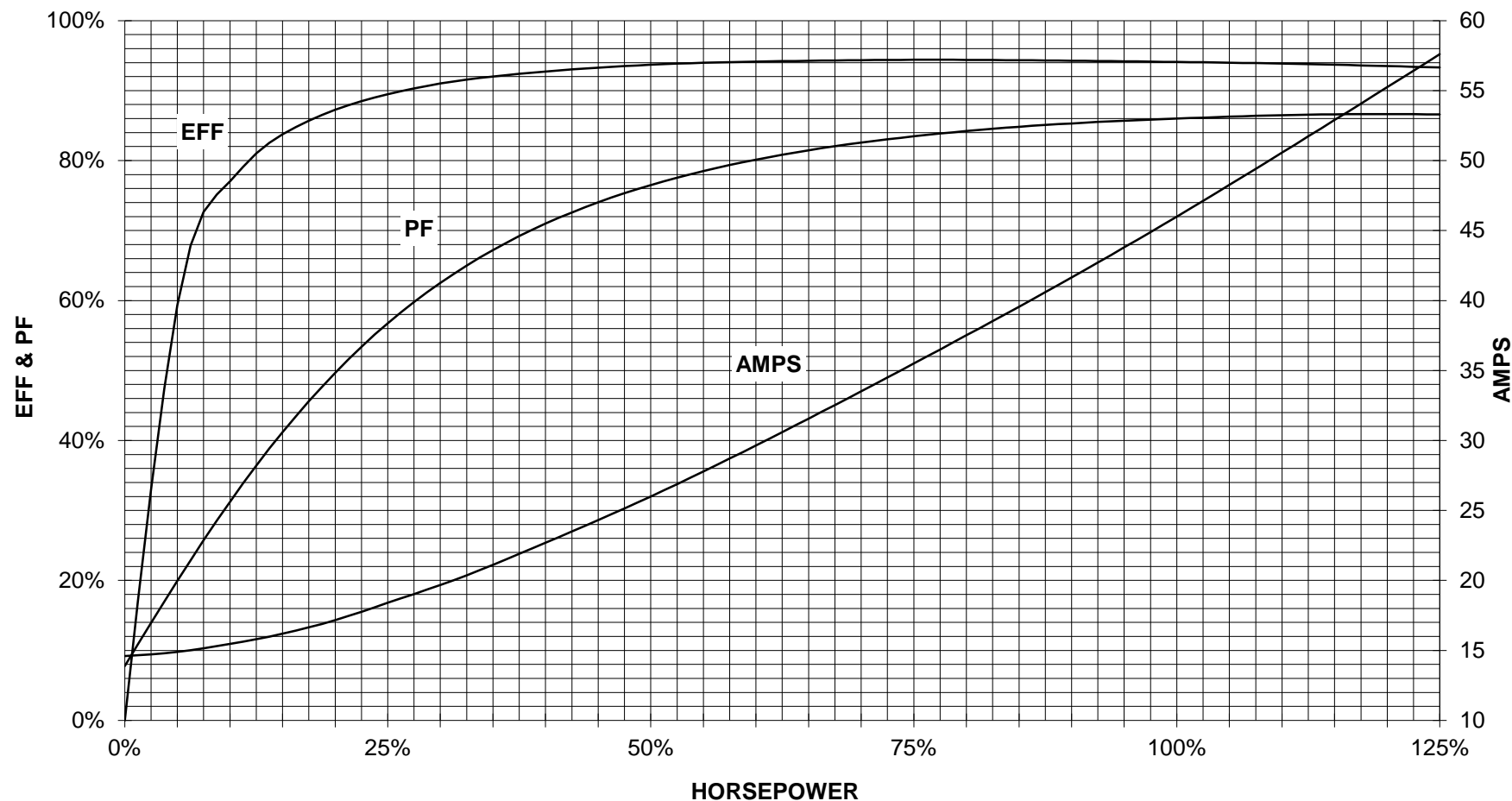
## TORQUE & CURRENT VS. SPEED



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

40 HP 1800 RPM 324T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

**SIEMENS INDUSTRY, INC.**  
**PERFORMANCE CURVE**  
**GP100**

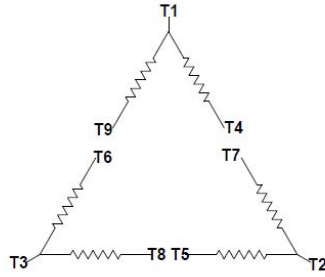


CUSTOMER: \_\_\_\_\_ ORDER #: \_\_\_\_\_

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

REV. 1

Main terminal diagram



| 9 LEAD DELTA |          |          |          |                    |       |     |
|--------------|----------|----------|----------|--------------------|-------|-----|
| Volts        | LINES    |          |          | CONNECTED TOGETHER | CONN. |     |
|              | L1       | L2       | L3       |                    |       |     |
| LOW          | T1<br>T6 | T7<br>T4 | T8<br>T5 | T3<br>T9           |       | Δ Δ |
| HIGH         | T1       | T2       | T3       | T4 T7-T5 T8-T6 T9  |       | Δ   |

|                               |                                      |                             |                |             |
|-------------------------------|--------------------------------------|-----------------------------|----------------|-------------|
| responsible dep.<br>DI MC LVM | technical reference                  | created by                  | approved by    | Project     |
| <b>SIEMENS</b>                | document type<br>Wiring Diagram      | document status<br>free     |                | customer    |
|                               | title<br>1LE2221-3AB11-6AA3-Z<br>B09 | document number             |                |             |
| © Siemens AG 2019             | rev.<br>01                           | creation date<br>12/03/2019 | language<br>en | Page<br>1/1 |