

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

Motor type: **GP100A** FS: **182T - 2p - 3 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	3.00	2.00	3,600	3.80	3.10	2.40	1.70	30.0	86.5	86.3	84.2	85.5	79.8	69.5	4.4	186	386	
230	YY	60	3.00	2.00	3,600	7.60	6.12	4.80	3.40	60.0	86.5	86.3	84.2	85.5	79.8	69.5	4.4	186	386	
400	Y	50	2.00		2,949	3.03	2.51	2.12	1.60	32.6	84.2	83.6	81.3	79.2	72.3	59.9	3.6	321	573	
200	YY	50	2.00		2,949	6.06	5.02	4.24	3.20	65.3	84.2	83.6	81.3	79.2	72.3	59.9	3.6	321	573	

Frame Type: 182T	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:51		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: J	IP 55

## Mechanical data

Sound level (SPL / SWL) at 60 Hz	69.0 dB(A) / 81.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	20 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	30 s
SPL@3	49.0	61.0	66.0	64.0	60.0	50.0	dB(A)	Frame material	aluminum
Moment of inertia	0.1 Lb-ft <sup>2</sup>							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	35.0 Lb ft <sup>2</sup>							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
<b>Bearings</b>			6206 ZZ C3 S0		6206 ZZ C3 S0			<b>Ventilation Type</b>	
Bearing DE   NDE			Ball Bearing		Ball Bearing			Method of cooling	TEFC
Bearing_Type			30BC02JPP30		30BC02JPP30			Direction of rotation	Bidirectional
AFBMA:								Fan Material	Polypropylen
<b>Grease</b>								VFD	CT: 4:1 VT: 20:1
Capacity			0.2 oz		0.2 oz			Space heaters	without
Grease Type:	Exxon Mobile EM							Brake:	without


## Terminal box

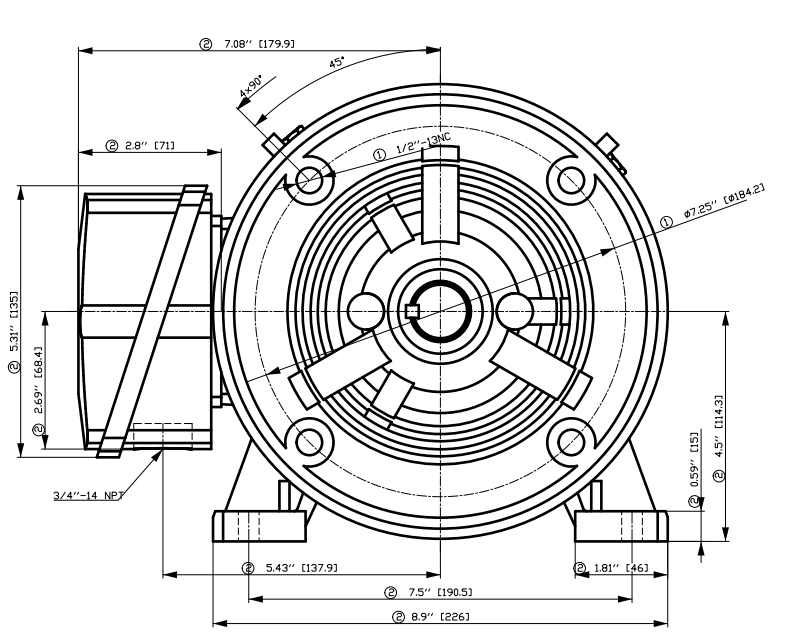
Lead Wire Connection	9 LEAD - WYE				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Aluminium
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Cable entry	.75" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

## Notes:

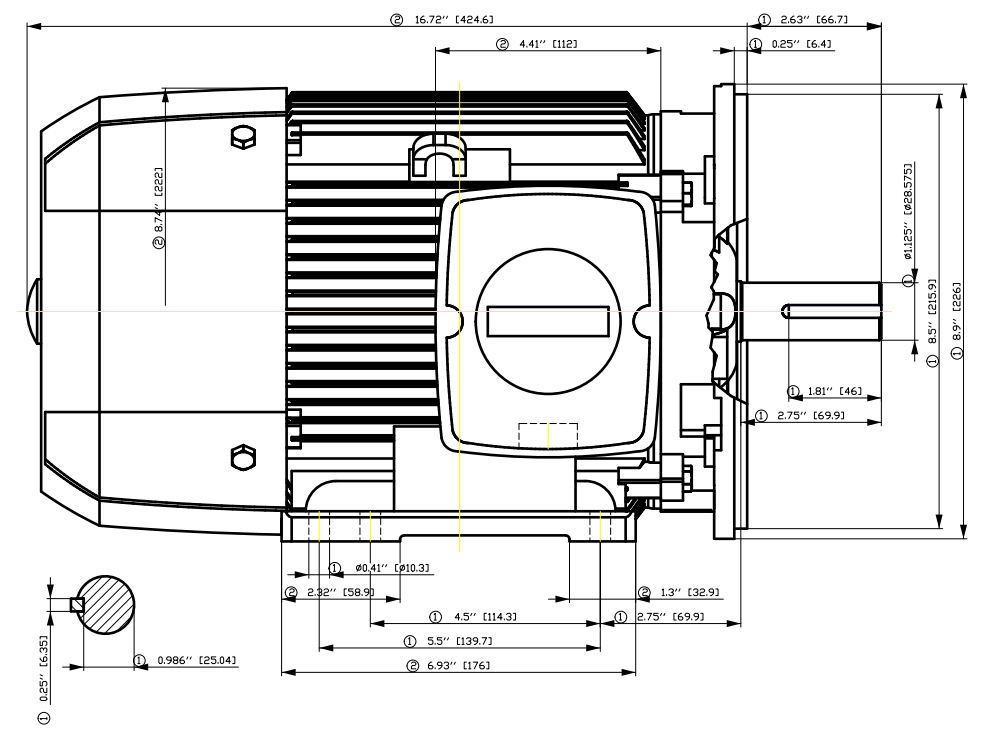
I<sub>L</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>L</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>d</sub>/M<sub>N</sub> = break down torque / nominal torque

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 our website and our data sheets.</i>	
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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.

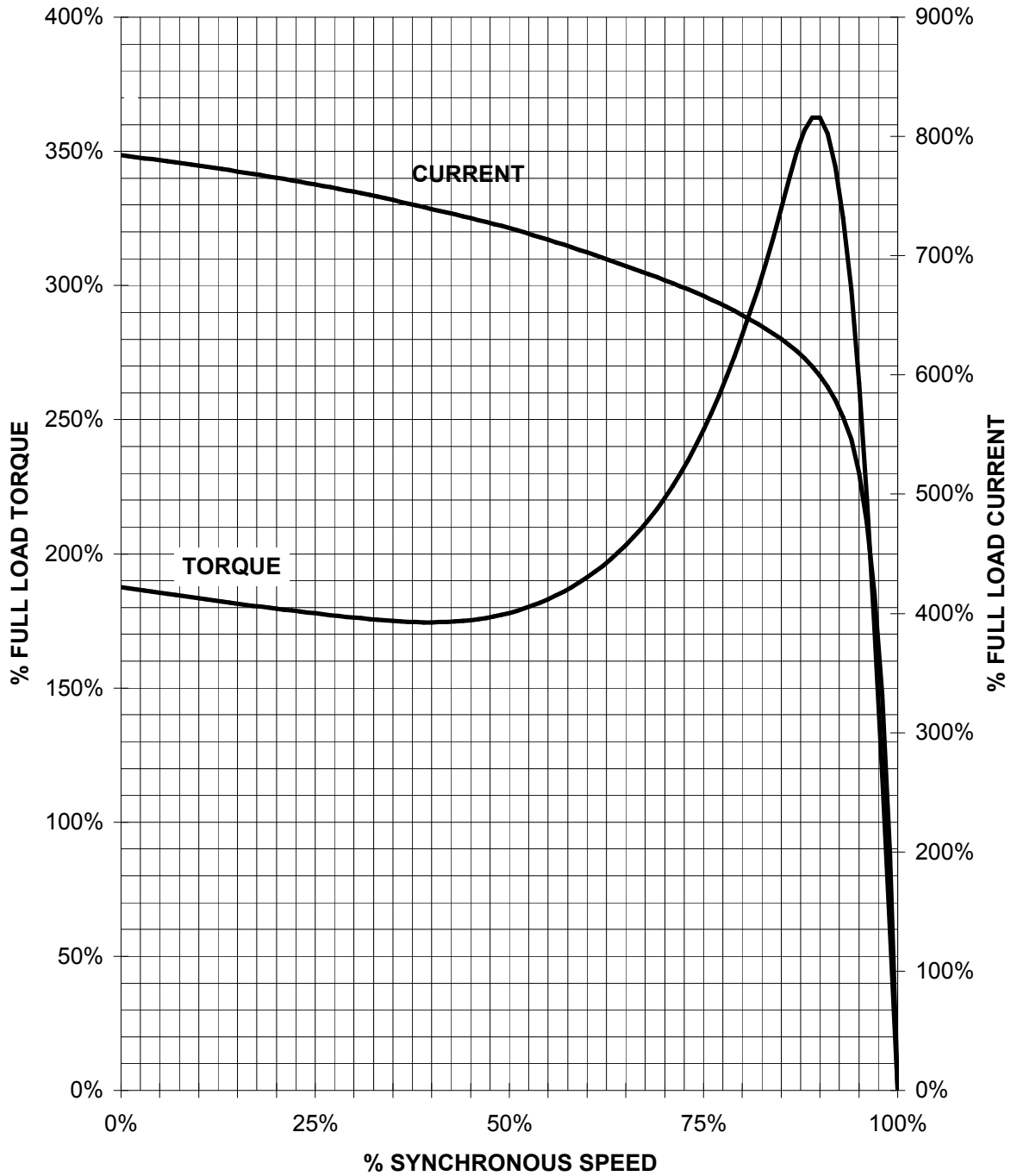


Tolerance	Surface	Material	Weight	Scale
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SIEMENS © Siemens AG 2018	Doc. State	I B EGG	Doc Type	CH
	Revision	Index RS	Item No	Paper Size
	Project No	E	Doc No	1st Language ^ 2nd Language â^
		Ref No	E	Sheet F of F

# SIEMENS INDUSTRY, INC.

HP 3 VOLTS < 600V RPM 3600 TYPE GP100A  
HZ 60 PHASE 3 FRAME 182T NEMA B

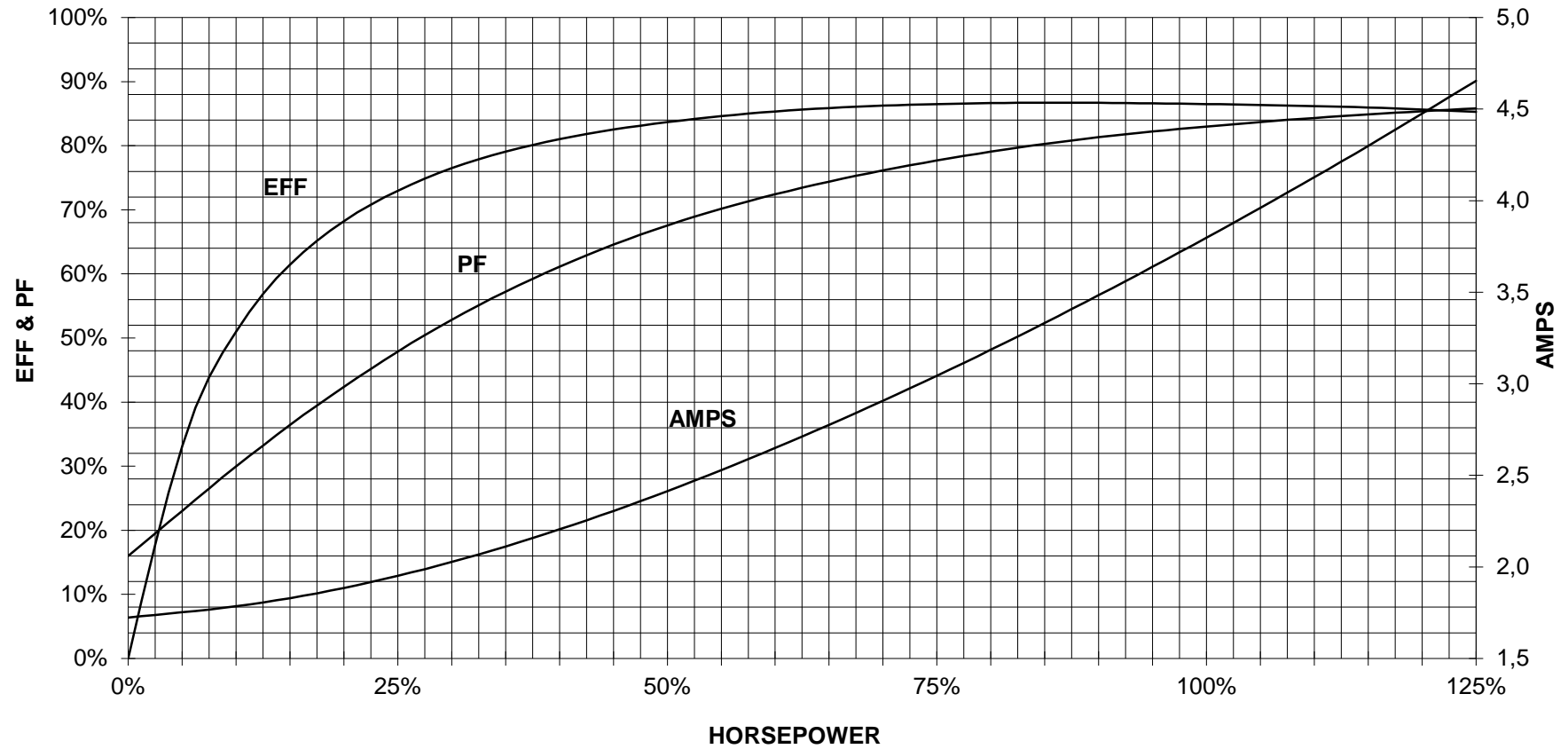
## TORQUE & CURRENT VS. SPEED



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

3 HP 3600 RPM 182 FRAME 460 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



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
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