

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

Motor type: **GP100A** FS: 145T - 6p - 1 hp -

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

Electrical data

U [V]	Δ/Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T _A /T _N LRT [%]	T _k /T _N BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4	without			
460	Y	60	1.00	0.75	1,200	1.60	1.30	1.20	1.00	11.0	82.5	82.5	80.2	70.9	63.3	50.2	4.5	256	344	
230	YY	60	1.00	0.75	1,200	3.20	2.69	2.33	2.00	22.0	82.5	82.5	80.2	70.9	63.3	50.2	4.5	256	344	
400	Y	50	0.75		973	1.49	1.32	1.17	1.12	10.3	77.0	76.4	73.6	65.0	55.8	43.4	4.1	316	442	
200	YY	50	0.75		973	2.98	2.64	2.34	2.24	20.6	77.0	76.4	73.6	65.0	55.8	43.4	4.1	316	442	

Frame Type: 145T	Type of constr.: (G) Round body - 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: K	IP 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	50.0 dB(A) / 58.0 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	31 s	
SPL@3	31.0	43.0	47.0	40.0	36.0	31.0	dB(A)	Frame material	aluminum
Moment of inertia	0.2 Lb-ft ²	Color, paint shade	Standard Paint - RAL7030						
Ext Load Inertia Capability:	15.0 Lb ft ²	Coating (paint finish)	Standard Alkyed + Epoxy (C2)						
Bearings		Ventilation Type							
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					
Grease		VFD	CT: 4:1	VT: 20:1					
Capacity	0.1 oz	Space heaters	without						
Grease Type:	Exxon Mobile EM	Brake:	without						


Terminal box

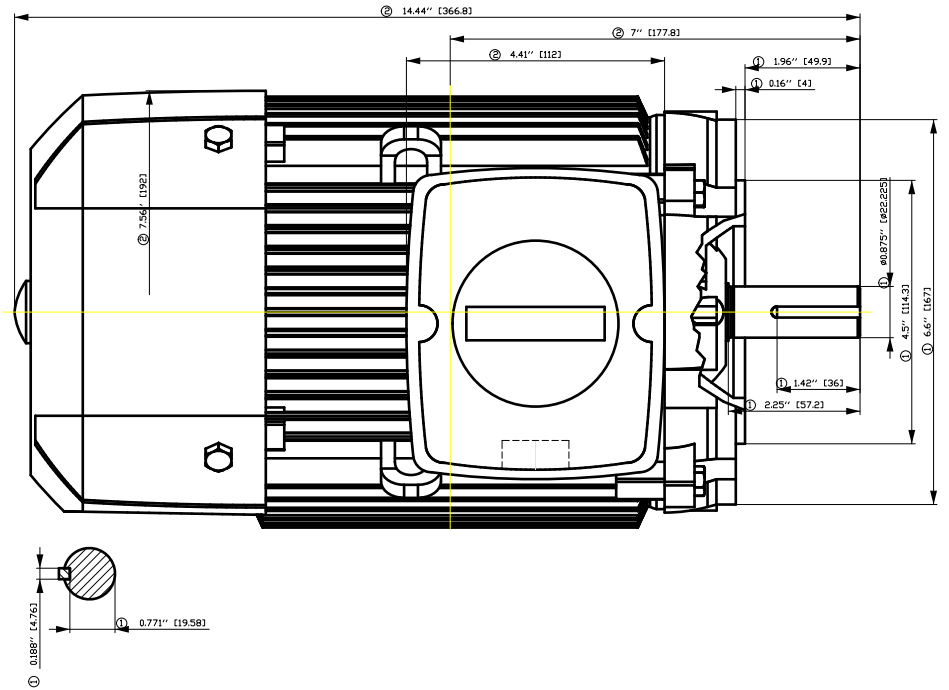
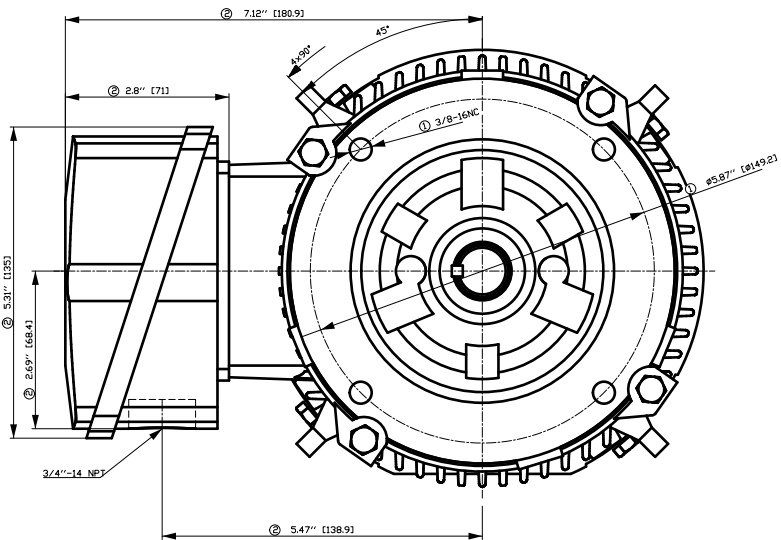
Lead Wire Connection	9 LEAD - WYE	Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1 L1 L1 Connected together	Material of terminal box	Aluminium
LOW	T1 T7 T2 T8 T3 T9 T4 T5 T6	Cable entry	.75" NPT
HIGH	T1 T2 T3 T4 T7-T5 T8-T6 T9		

Notes:

I_L/I_N = locked rotor current / current nominal
M_L/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. 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>
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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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	Approval	TÖS		
	Department			
	Change Order	MLFB		Doc Type
	Doc State	I ÖG		Paper Size
	Revision	Index RS		1st Language
				2nd Language
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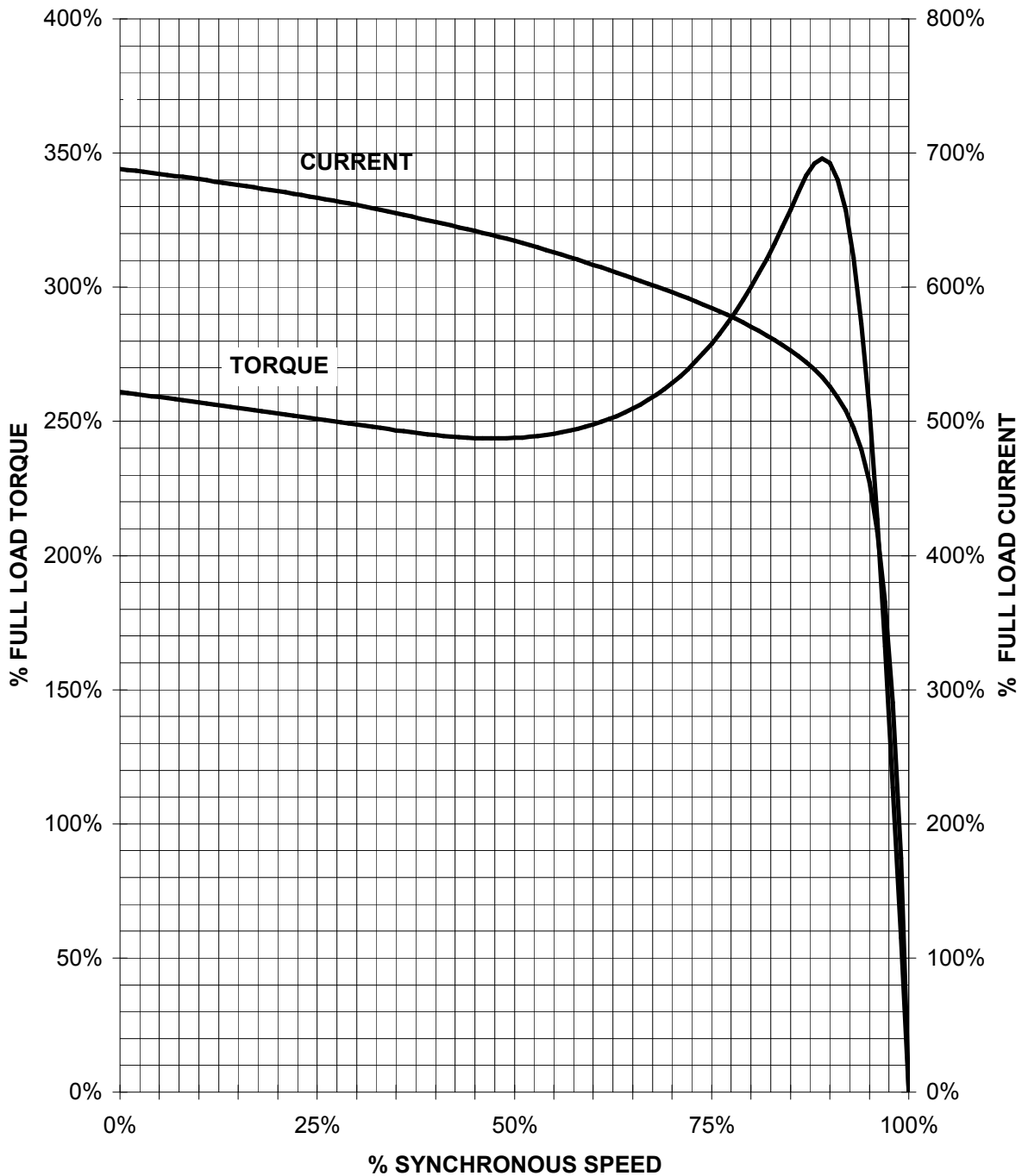
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SIEMENS INDUSTRY, INC.

HP 1 VOLTS < 600V RPM 1200 TYPE GP100A
HZ 60 PHASE 3 FRAME 145T NEMA B

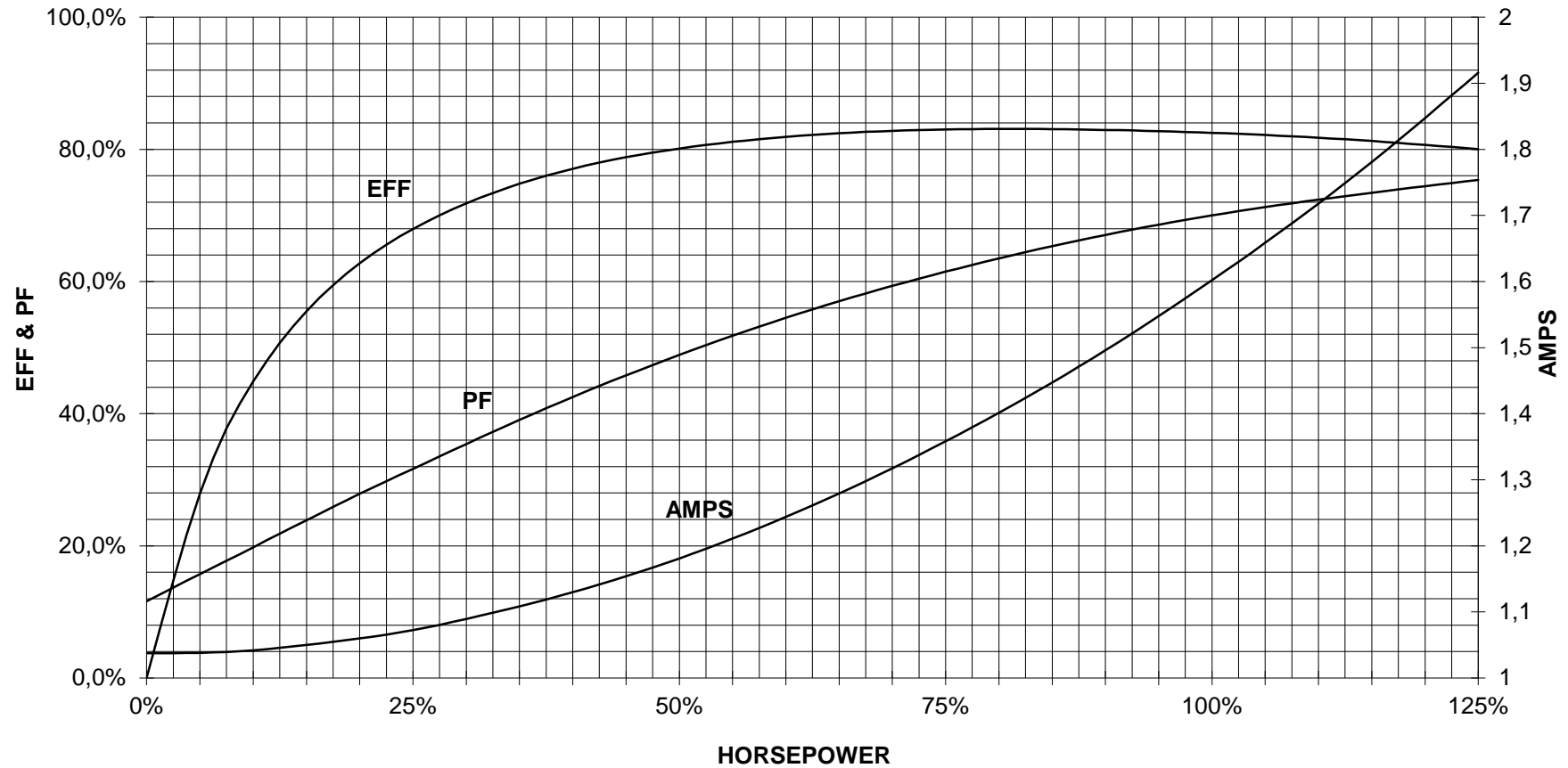
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

1 HP 1200 RPM 145 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 | |

| | | | | |
|-------------------------------|---------------------------------|-----------------------------|----------------|-------------|
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1/1 |