

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

Motor type: **GP100** FS: **286TS - 2p - 30 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	$\Delta$	60	30.00	22.00	3,600	34.00	25.70	18.30	8.50	218.0	91.7	92.2	91.4	90.0	89.0	84.0	45.0	160	250	
230	$\Delta \Delta$	60	30.00	22.00	3,600	68.00	51.35	36.59	17.00	436.0	91.7	92.2	91.4	90.0	89.0	84.0	45.0	160	250	
400	$\Delta$	50	25.00		2,949	33.49	26.13	19.69	13.72	231.6	92.4	93.1	92.8	86.7	82.7	73.4	44.5	167	295	
200	$\Delta \Delta$	50	25.00		2,949	66.98	52.26	39.38	27.44	463.2	92.4	93.1	92.8	86.7	82.7	73.4	44.5	167	295	

Frame Type: 286TS	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: 424		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	IP 54

## Mechanical data


Sound level (SPL / SWL) at 60 Hz	72.0 dB(A) / 83.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	16 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	30 s
SPL@3	57.0	65.0	64.0	62.0	60.0	52.0	dB(A)	Frame material	cast iron
Moment of inertia	3.5 Lb-ft <sup>2</sup>							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	30.0 Lb ft <sup>2</sup>							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
<b>Bearings</b>								<b>Ventilation Type</b>	
Bearing DE   NDE	6310 Z C3 S0			6210 ZZ C3 S0				Method of cooling	TEFC
Bearing_Type	Ball Bearing			Ball Bearing				Direction of rotation	Bidirectional
AFBMA:	50BC03JP30			50BC02JPP30				Fan Material	Polypropylen ESD
<b>Grease</b>								VFD	CT: 4:1 VT: 20:1
Capacity	2.6 oz			2.3 oz				Space heaters	without
Grease Type:	Exxon Mobile EM							Brake:	without

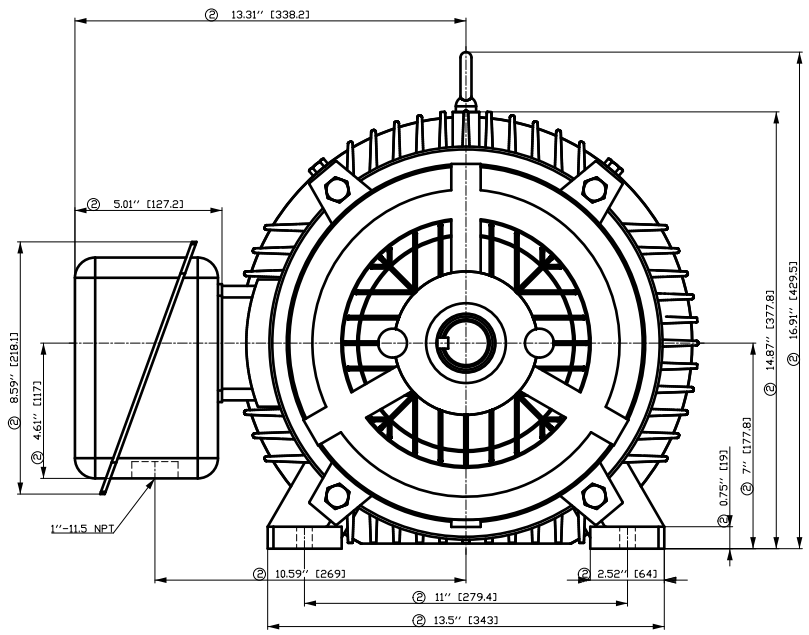
## Terminal box

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	1.5" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

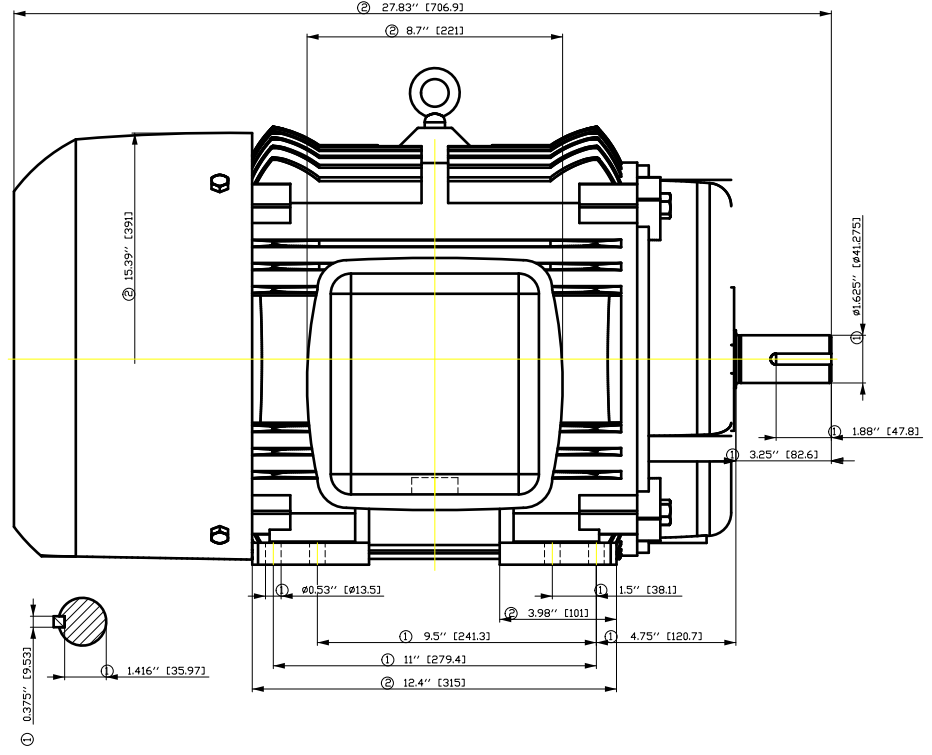
## Notes:

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			
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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.

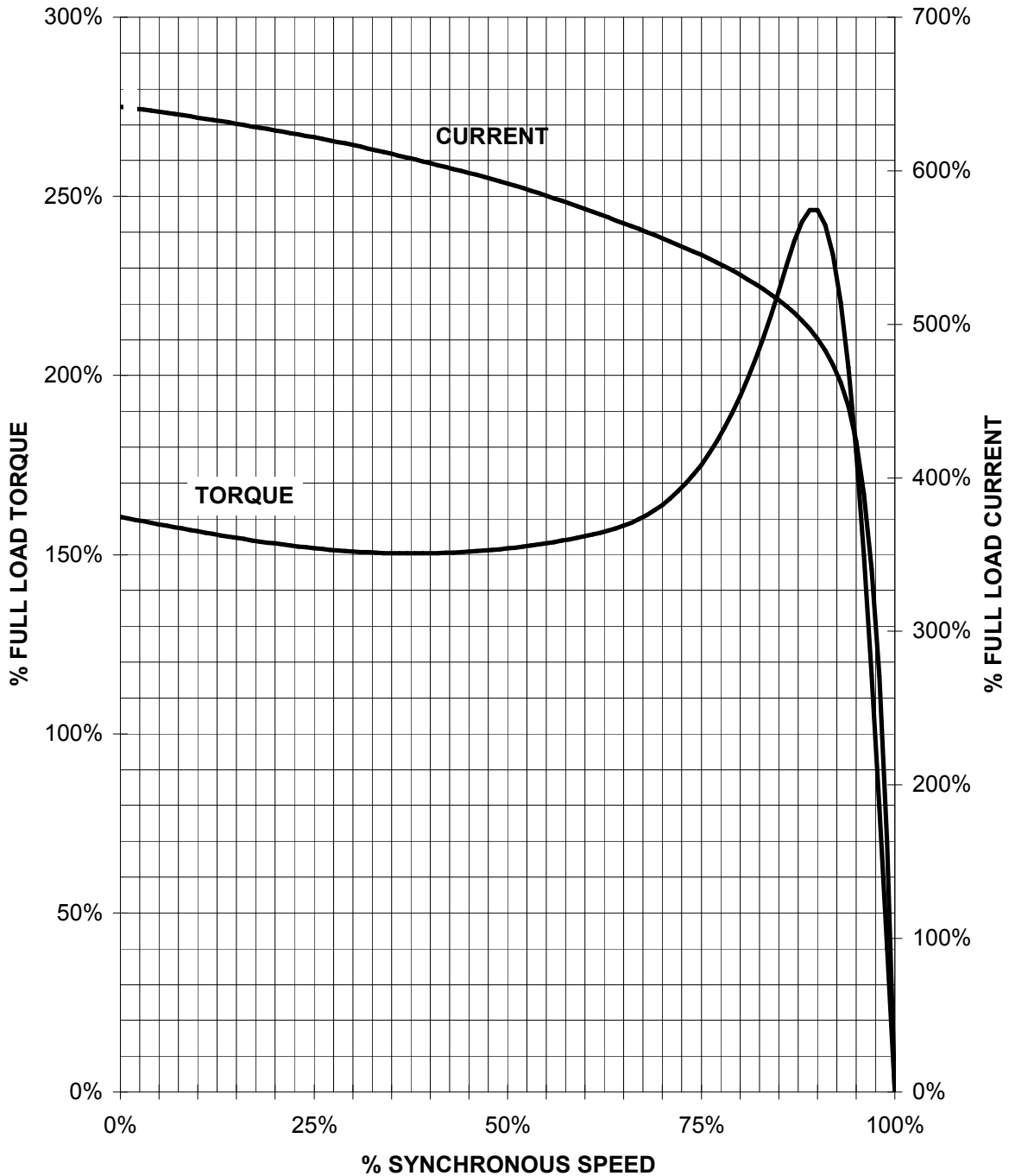


Tolerance	Surface	Material	Weight	Scale
F50GGF-E00GF-E 00H E	Author Creator Approval Department Change Order	ÖVS T a : ^ & @ } *	E	{ {
SIEMENS	Doc. State	I BGG	MLFB	Doc. Type
	Revision	Index RS	Item No	Paper Size CH
	Project No	E	Doc No	1st Language ^ 2nd Language a^
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				Sheet F of F

# SIEMENS INDUSTRY, INC

HP 30    VOLTS < 600V    RPM 3600    TYPE GP100  
HZ 60    PHASE 3    FRAME 286TS    NEMA B

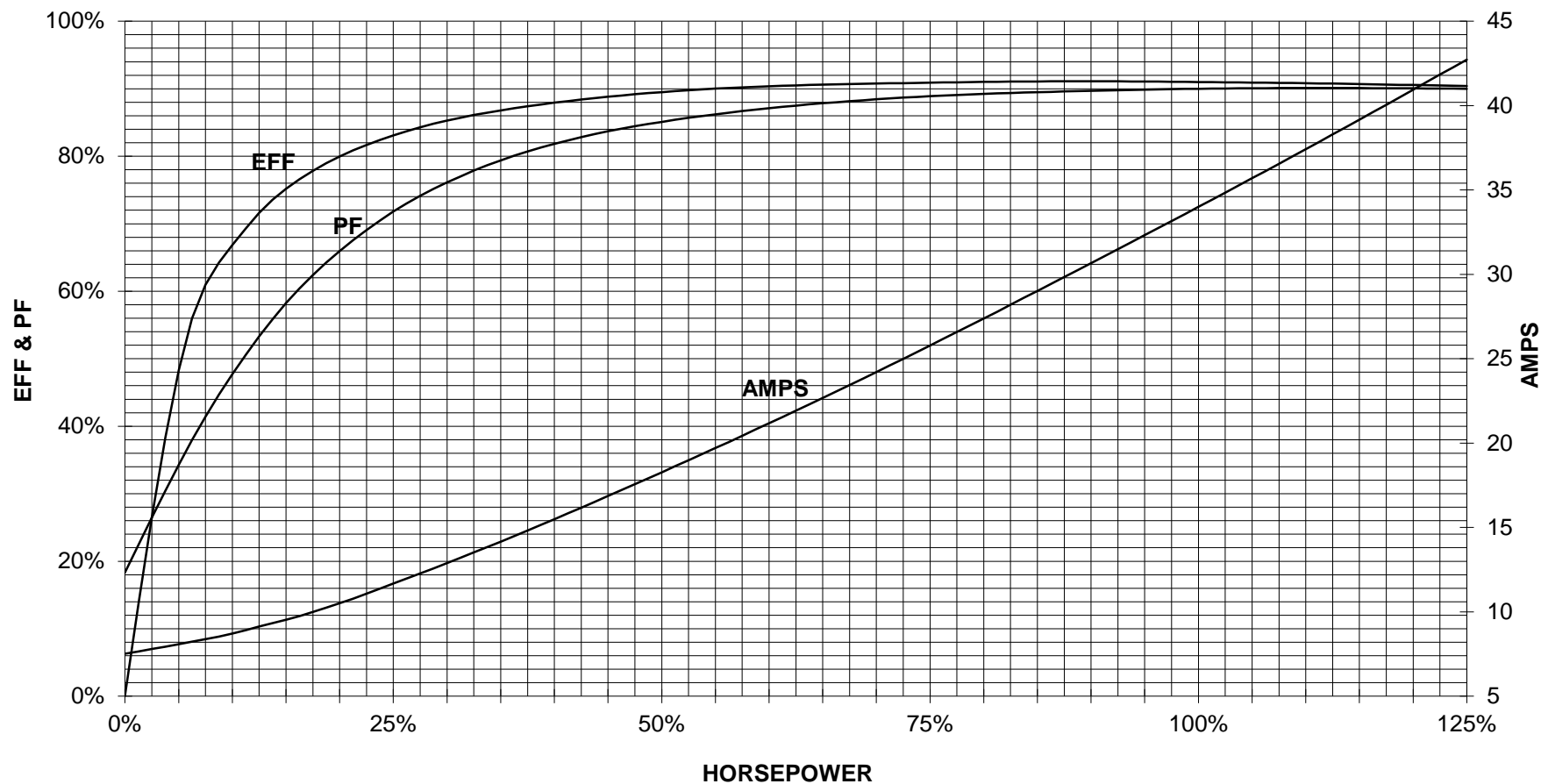
## TORQUE & CURRENT VS. SPEED



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

30HP 3600 RPM 286TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

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

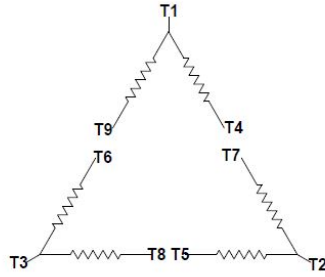


CUSTOMER \_\_\_\_\_ ORDER # \_\_\_\_\_ PO # \_\_\_\_\_

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

REV. 1

Main terminal diagram



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

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
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