

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

Motor type: **GP100** FS: **284TS - 2p - 25 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				
460	Δ	60	25.00	18.50	3,600	29.00	22.10	15.80	7.00	183.0	91.7	92.2	91.4	88.0	86.0	81.0	37.0	159	251	
230	$\Delta \Delta$	60	25.00	18.50	3,600	58.00	44.28	31.62	14.00	366.0	91.7	92.2	91.4	88.0	86.0	81.0	37.0	159	251	
400	Δ	50	20.00		2,949	27.63	21.52	17.40	12.01	175.8	91.9	89.3	88.0	85.2	81.8	68.4	35.6	150	307	
200	$\Delta \Delta$	50	20.00		2,949	55.26	43.04	34.80	24.02	351.6	91.9	89.3	88.0	85.2	81.8	68.4	35.6	150	307	

without

Frame Type: 284TS	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: 465		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	69.0	65.0	54.0	dB(A)	Frame material	cast iron
Moment of inertia	3.0 Lb-ft ²							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	26.0 Lb ft ²							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearings								Ventilation Type	
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
Grease								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

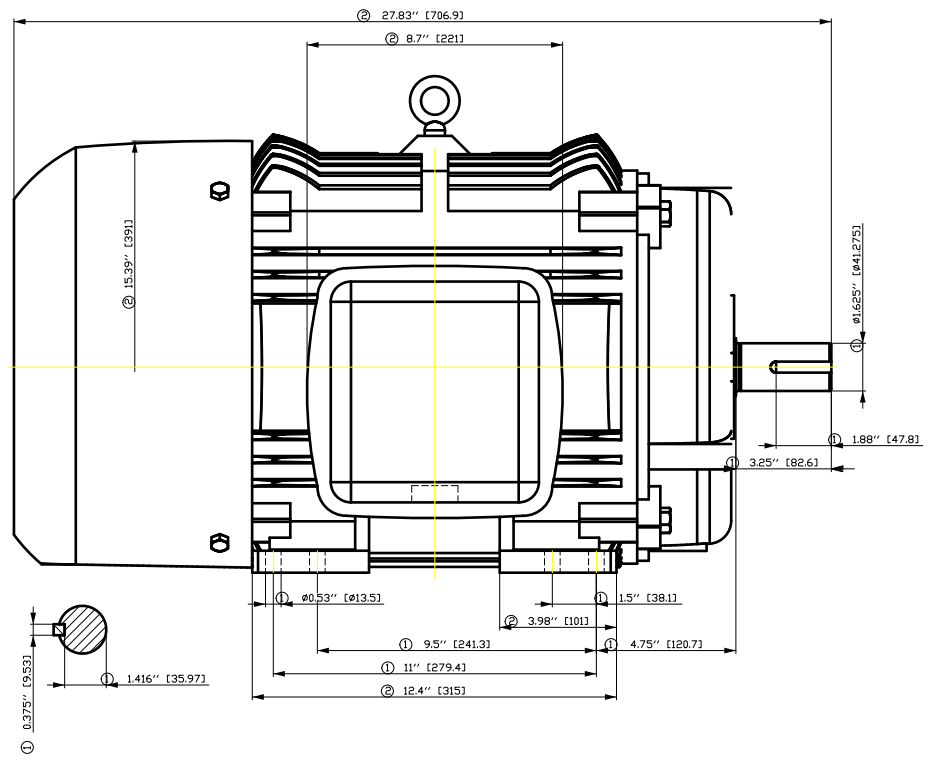
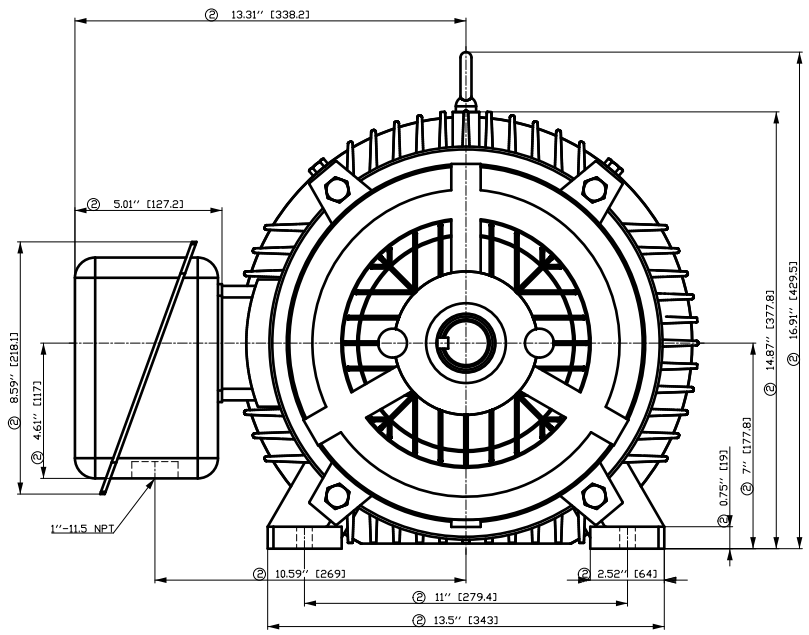
Lead Wire Connection	9 LEAD - DELTA				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Stamped Steel
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	---	Cable entry	1.5" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

Notes:

I_L/I_N = locked rotor current / current nominal
M_L/M_N = locked rotor torque / torque nominal
M_d/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
F50GGF E30OFF E10EH	Author	ÖV	1.65" [41.275]	1:1
E	Creator	T a : ^ & @ } *	1.88" [47.8]	
	Approval		3.25" [82.6]	
	Department		0.375" [9.53]	
	Change Order	MFB	0.75" [19]	
	Doc. State	I BGG	1.05" [26.7]	
SIEMENS	Revision	Index RS	1.416" [35.97]	
© Siemens AG 2018	Project No	E	1.88" [47.8]	
	Ref No	E	1.88" [47.8]	

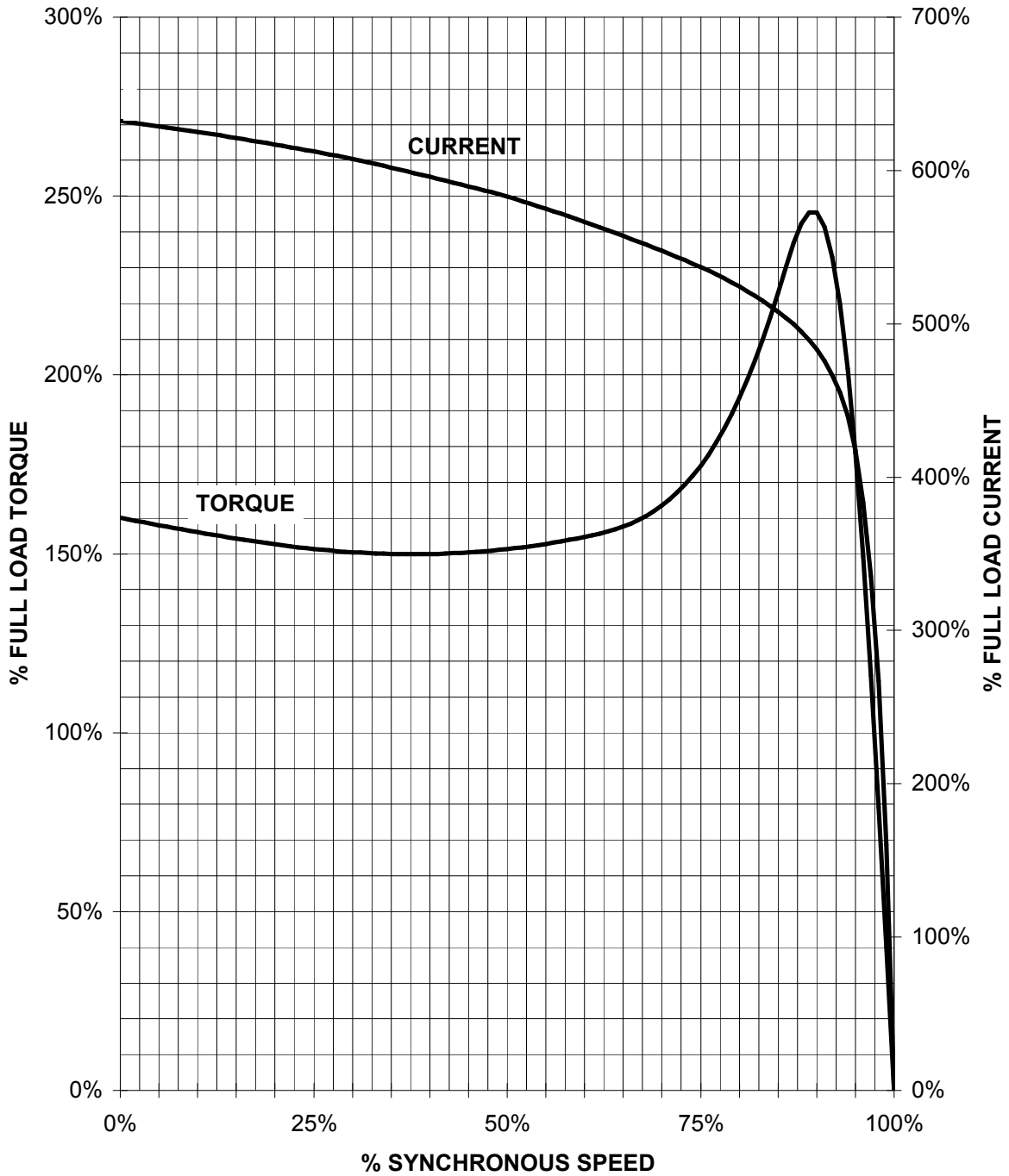
刀线管
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SIEMENS INDUSTRY, INC.

HP 25 VOLTS < 600V RPM 3600 TYPE GP100
HZ 60 PHASE 3 FRAME 284TS NEMA B

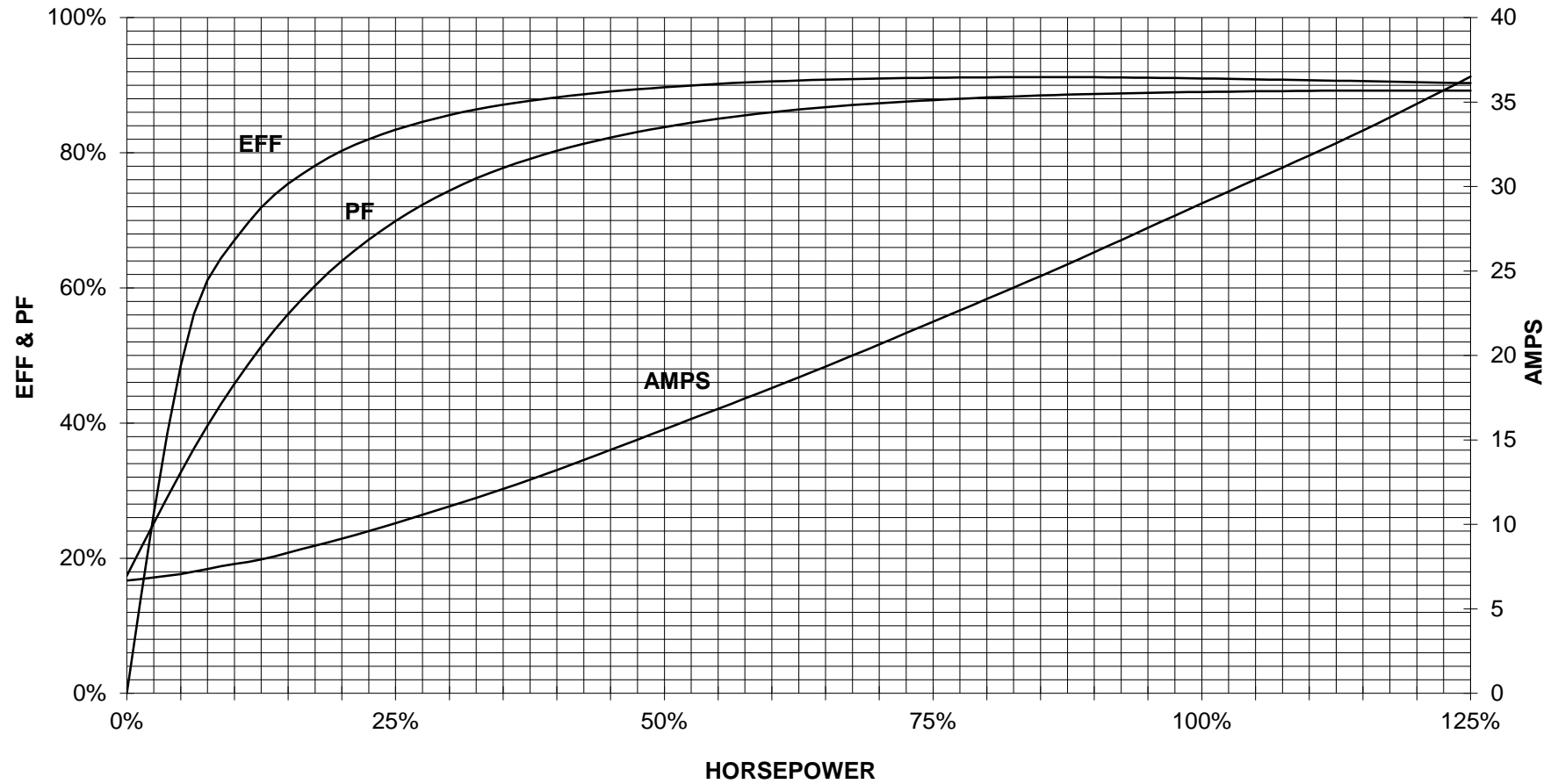
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

25 HP 3600 RPM 284TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100

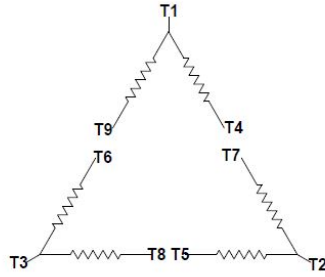


CUSTOMER _____ ORDER # _____ PO # _____

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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