

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

Motor type: **GP100** FS: 324TS - 2p - 40 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	40.00	30.00	3,600	45.00	34.30	24.90	12.00	290.0	93.6	94.1	94.0	89.0	87.0	80.0	60.0	150	250	
230	$\Delta\Delta$	60	40.00	30.00	3,600	90.00	68.62	49.81	24.00	580.0	93.6	94.1	94.0	89.0	87.0	80.0	60.0	150	250	
400	Δ	50	30.00		2,977	39.90	31.50	25.60	17.80	293.0	92.8	92.9	92.4	87.0	83.5	74.7	53.0	200	351	
200	$\Delta\Delta$	50	30.00		2,977	79.80	63.00	51.20	35.60	586.0	92.8	92.9	92.4	87.0	83.5	74.7	53.0	200	351	

Frame Type: 324TS	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: 608		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	77.0 dB(A) / 87.0 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	56.0	68.0	68.0	70.0	74.0	54.0	dB(A)	Frame material	cast iron
Moment of inertia	4.7 Lb-ft ²		Color, paint shade	Standard Paint - RAL7030					
Ext Load Inertia Capability:	40.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings									
Bearing DE NDE	6312 Z C3 S0		6210 ZZ C3 S0						
Bearing_Type	Ball Bearing		Ball Bearing						
AFBMA:	60BC03JP30		50BC02JPP30						
Grease									
Capacity	5.5 oz		2.3 oz						
Grease Type:	Exxon Mobile EM								
Ventilation Type									
Method of cooling					TEFC				
Direction of rotation					Bidirectional				
Fan Material					Polypropylen ESD				
VFD					CT: 4:1 VT: 20:1				
Space heaters					without				
Brake:					without				


Terminal box

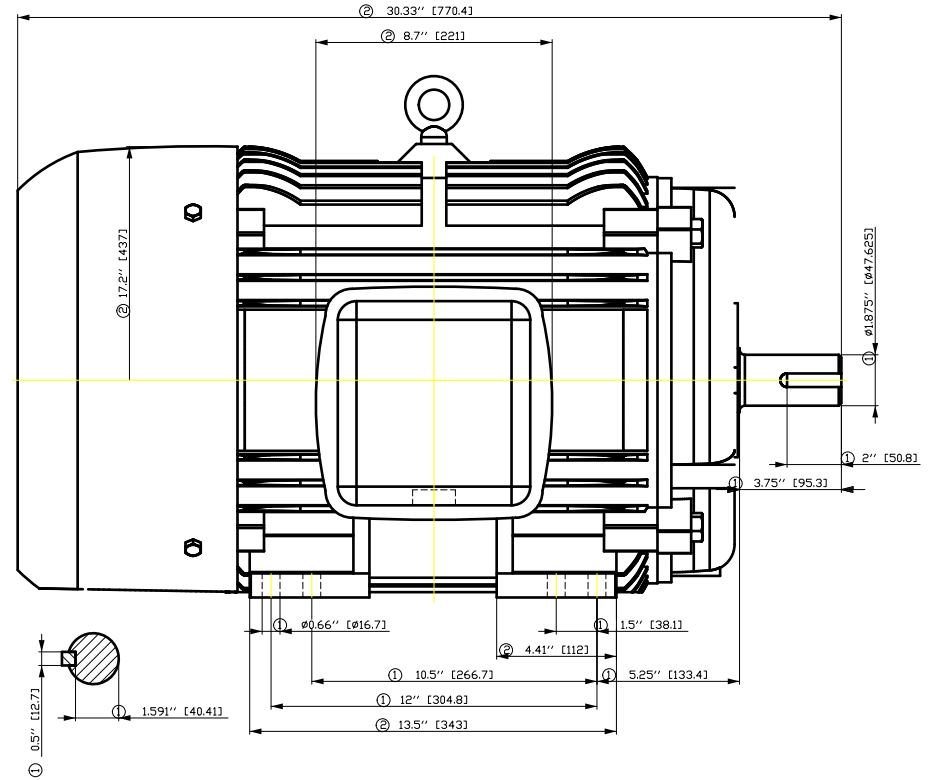
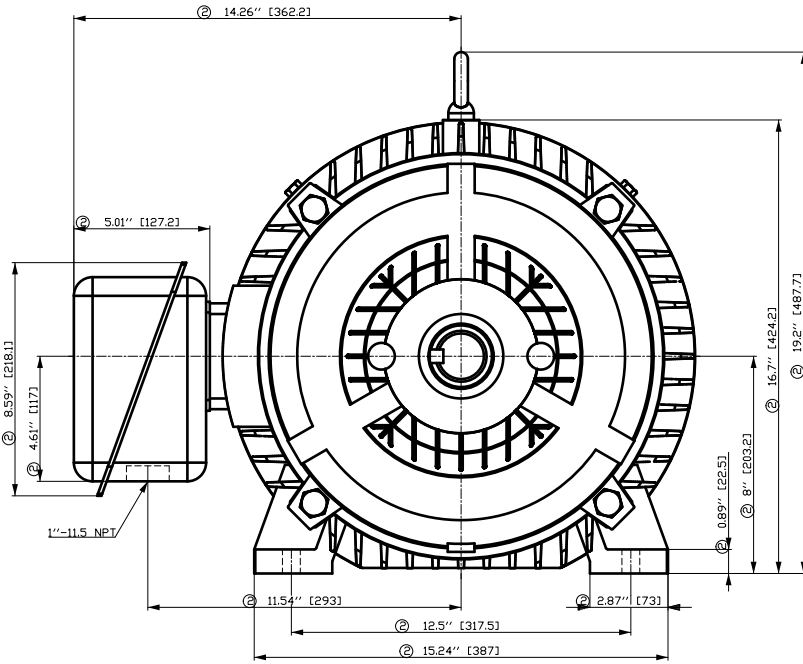
Lead Wire Connection	9 LEAD - DELTA				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Stamped Steel
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	---	Cable entry	2" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

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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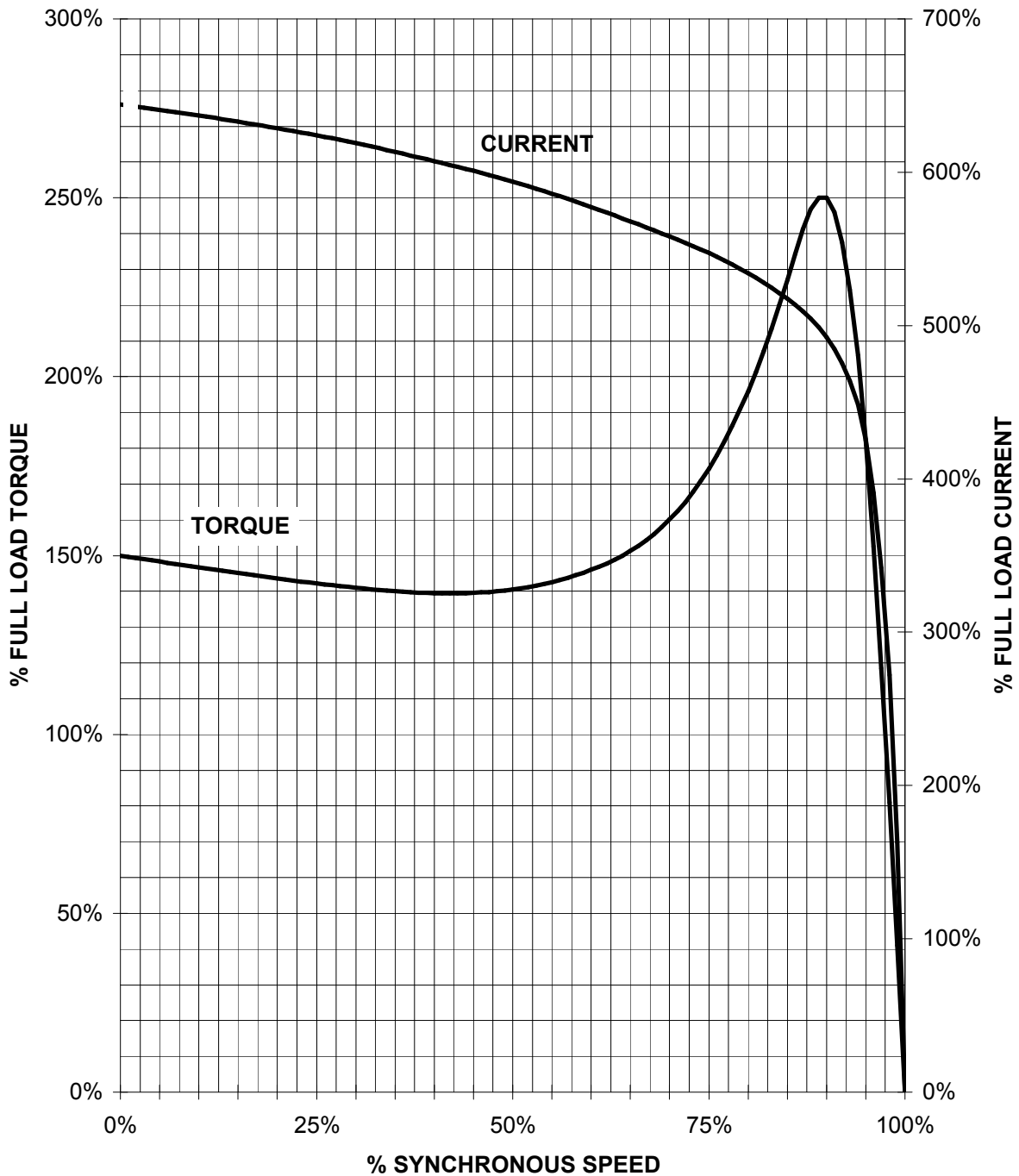
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale	
F50GGF-E0CFE OEH	Author	ÖV T a : ^ @ } *	E		
E	Creator				ÖVS
	Approval				
	Department				
	Change Order	MFB	Doc Type	/	
	Doc. State	I BGG	Item No	Paper Size	
	Revision	Index	RS	1st Language	
				2nd Language	
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HP 40 VOLTS < 600V RPM 3600 TYPE GP100
HZ 60 PHASE 3 FRAME 324TS NEMA B

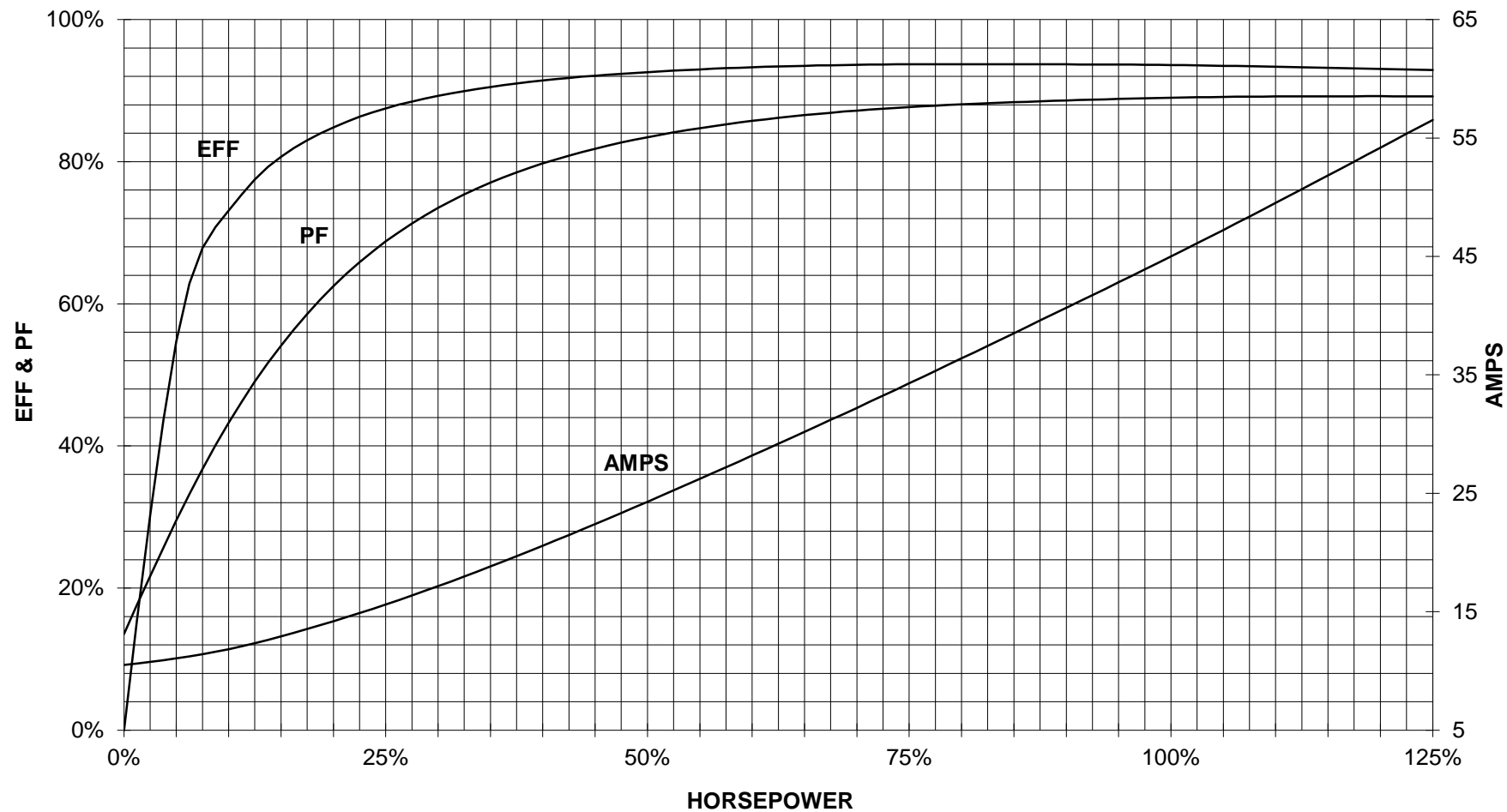
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

40HP 3600 RPM 324TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100

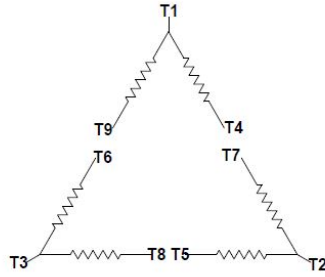


CUSTOMER: _____ ORDER _____ PO _____

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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