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

Motor type: **GP100** **FS: 324T - 8p - 20 hp -**

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

Electrical data

without

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	2/4	Pwr. Factor Load [%] 4/4	3/4	2/4	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460	Δ	60	20.00	15.00	900	32.00	26.70	22.60	18.00	145.0	91.0	90.8	90.0	65.0	58.0	46.0	119.0	139	200
230	Δ Δ	60	20.00	15.00	900	64.00	53.34	45.23	36.00	290.0	91.0	90.8	90.0	65.0	58.0	46.0	119.0	139	200

Frame Type: 324T	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:616		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	57.0 dB(A) / 67.0 dB(A)

Octave Band Center Frequencies Hertz	250	500	1000	2000	4000	8000	Hz
SPL@3	53.0	55.0	56.0	53.0	41.0	32.0	dB(A)

Moment of inertia	8.8 Lb-ft²
Ext Load Inertia Capability:	525.0 Lb ft²

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	

Thickener	Polyurea
Safe Stall Time Hot	15 s
Safe Stall Time Cold	35 s
Frame material	cast iron
Color, paint shade	Standard Paint - RAL7030
Coating (paint finish)	Standard Alkyed + Epoxy (C2)
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			
Voltage	L1	L1	L1	Connected together
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	-- -- --
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9

Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Material of terminal box	Stamped Steel
Cable entry	2" NPT

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values*

	document type	document status	customer	
SIEMENS	datasheet	released		
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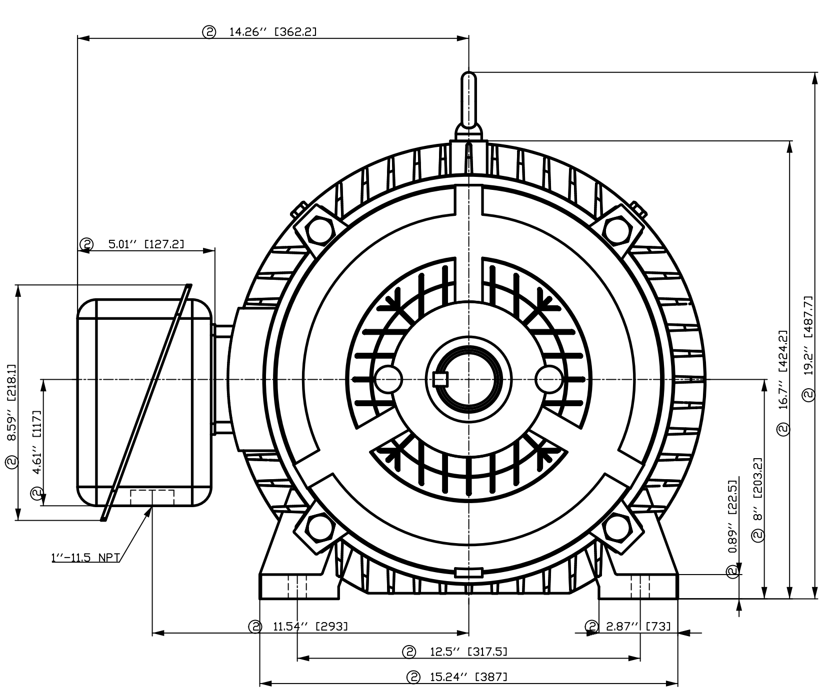

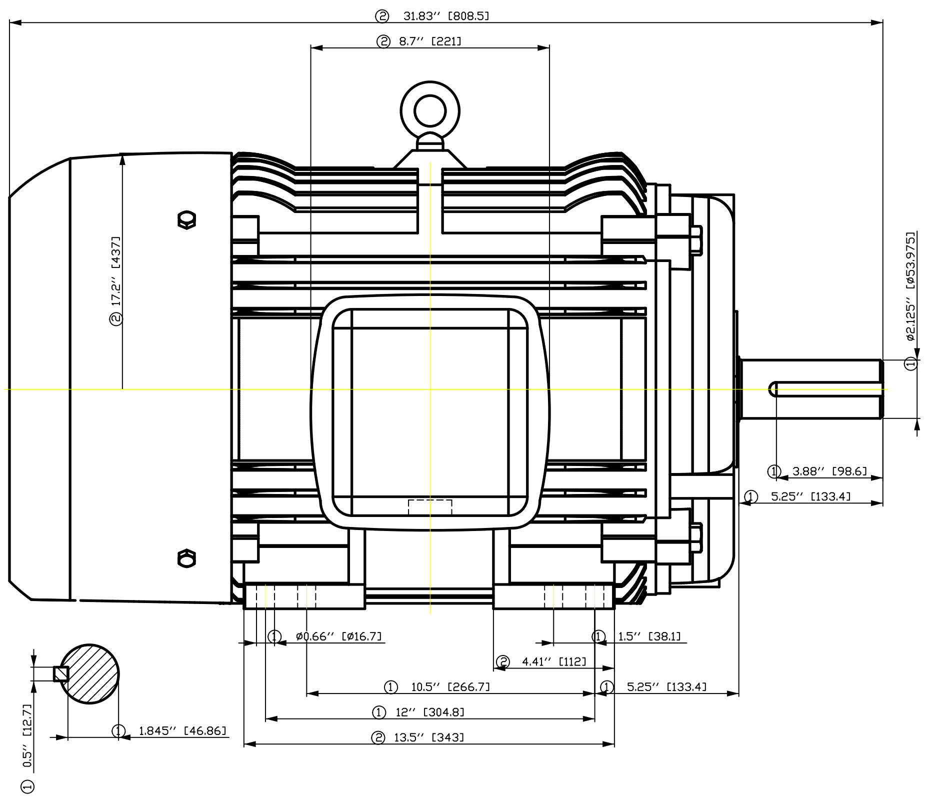

① Tolerances according to NEMA std.

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
			-	mm
1LE2221-3AD11-6AA3 -	Author	Dimensional drawing MaÇzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc Type	
SIEMENS	Doc State 4/8/22	Item No	Paper Size A3	
	Revision Index RS	Doc No	1st Language en 2nd Language de	
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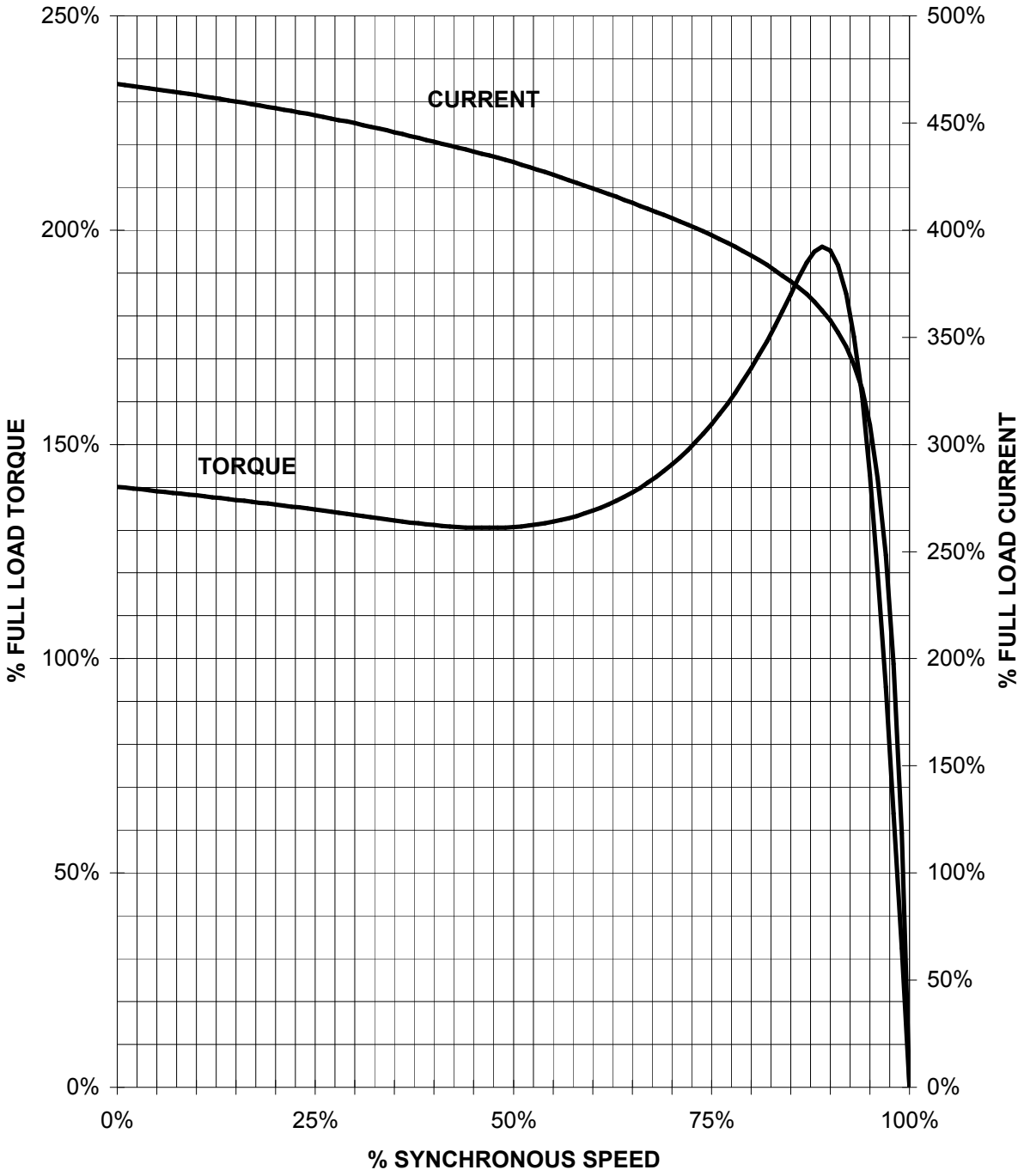
HP	20	VOLTS	< 600V	RPM	900	TYPE	GP100
HZ	60	PHASE	3	FRAME	324T	NEMA	B

TORQUE & CURRENT VS. SPEED

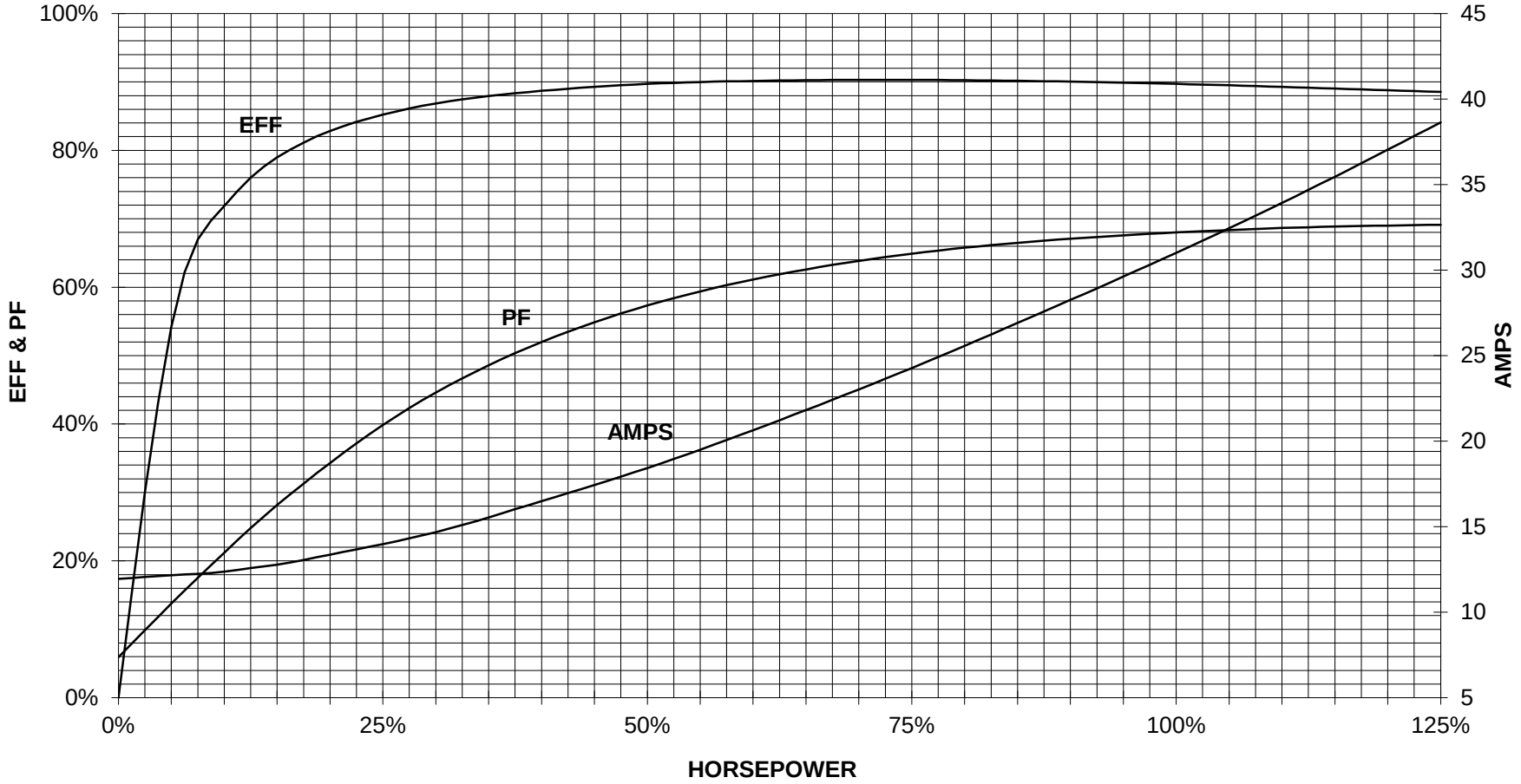


CUSTOMER: _____ ORDER#: _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1

20 HP 900 RPM 324T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100



CUSTOMER: _____ ORDER #: _____

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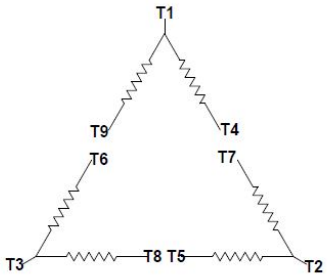
REV. 1

Main terminal diagram



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