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

Motor type: GP100 **FS: 284T - 4p - 25 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	25.00	18.50	1,775	30.00	23.30	17.60	11.00	183.0	93.6	94.0	93.5	84.0	80.0	71.0	74.0	180	250
230	Δ Δ	60	25.00	18.50	1,775	60.00	46.69	35.26	22.00	366.0	93.6	94.0	93.5	84.0	80.0	71.0	74.0	180	250
400	Δ	50	20.00		1,480	27.97	21.42	17.29	12.06	192.4	92.1	92.6	91.9	82.1	80.0	66.6	71.0	215	335
200	Δ Δ	50	20.00		1,480	55.94	42.84	34.58	24.12	384.8	92.1	92.6	91.9	82.1	80.0	66.6	71.0	215	335

Frame Type: 284T	Type of constr.: (A) Foot mounted - End shield		Motor Prot.:(A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT:445 lbs	Insulation Class.:Standard Class F Insulation	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	65.0 dB(A) / 76.0 dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3	51.0	55.0	55.0	62.0	59.0	51.0	dB(A)

Moment of inertia	4.4 Lb-ft²
Ext Load Inertia Capability:	122.0 Lb ft²

Bearings

Bearing DE | NDE	6310 Z C3 S0	6210 ZZ C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	50BC03JP30	50BC02JPP30

Grease

Capacity	2.6 oz	2.3 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	24 s
Safe Stall Time Cold	44 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	L2	L3	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	1.5" 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*

SIEMENS

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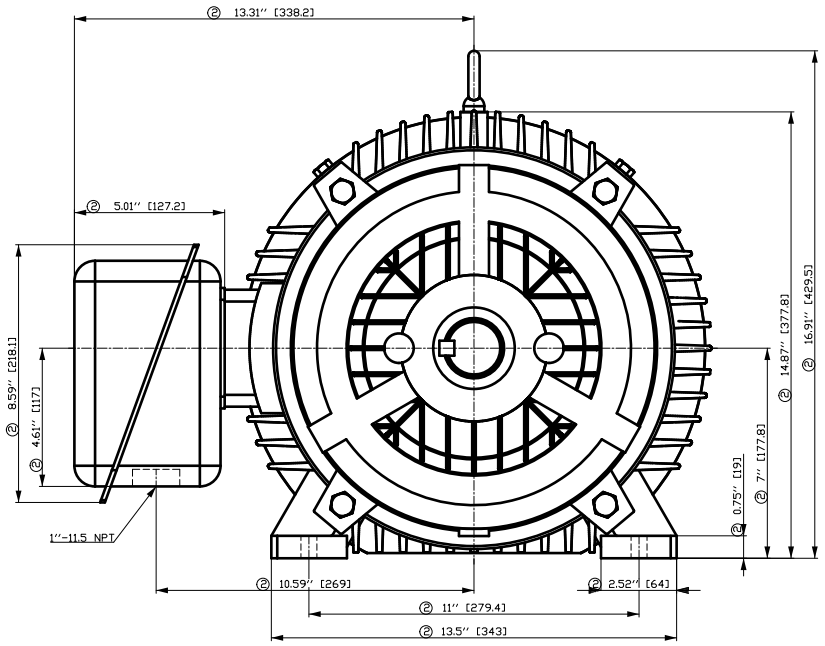

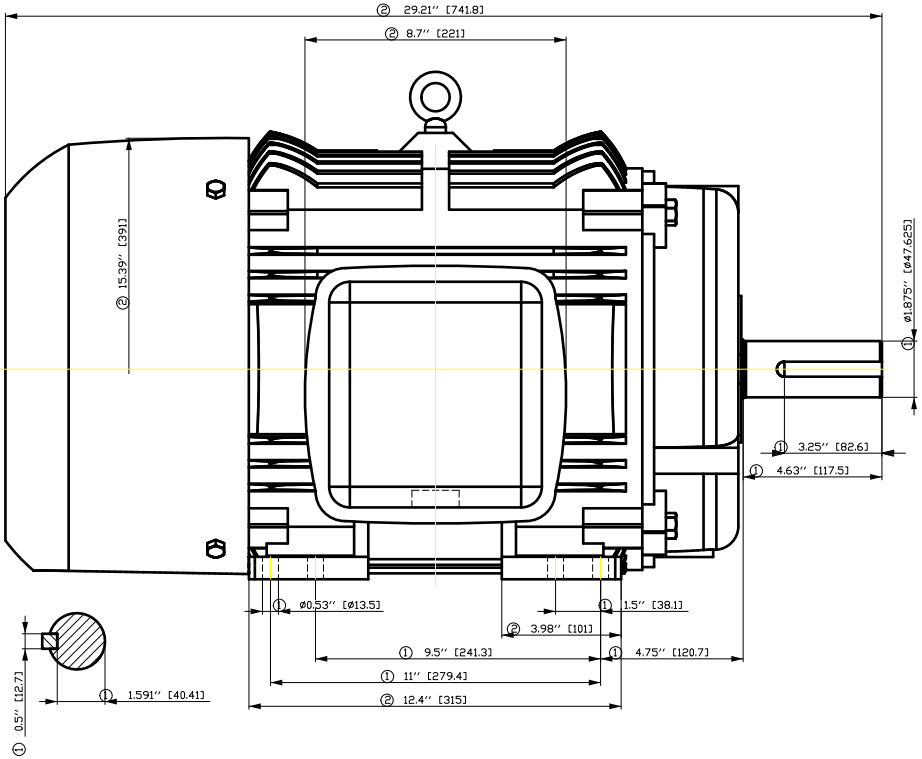

① Tolerances according to NEMA std.

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
1LE2221-2CB11-6AA3 -	Author Creator: DTK Approval Department Change Order	Dimensional drawing MaÇzeichnung		
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	Project No: -	Ref No: -	Sheet: 1 of 1	

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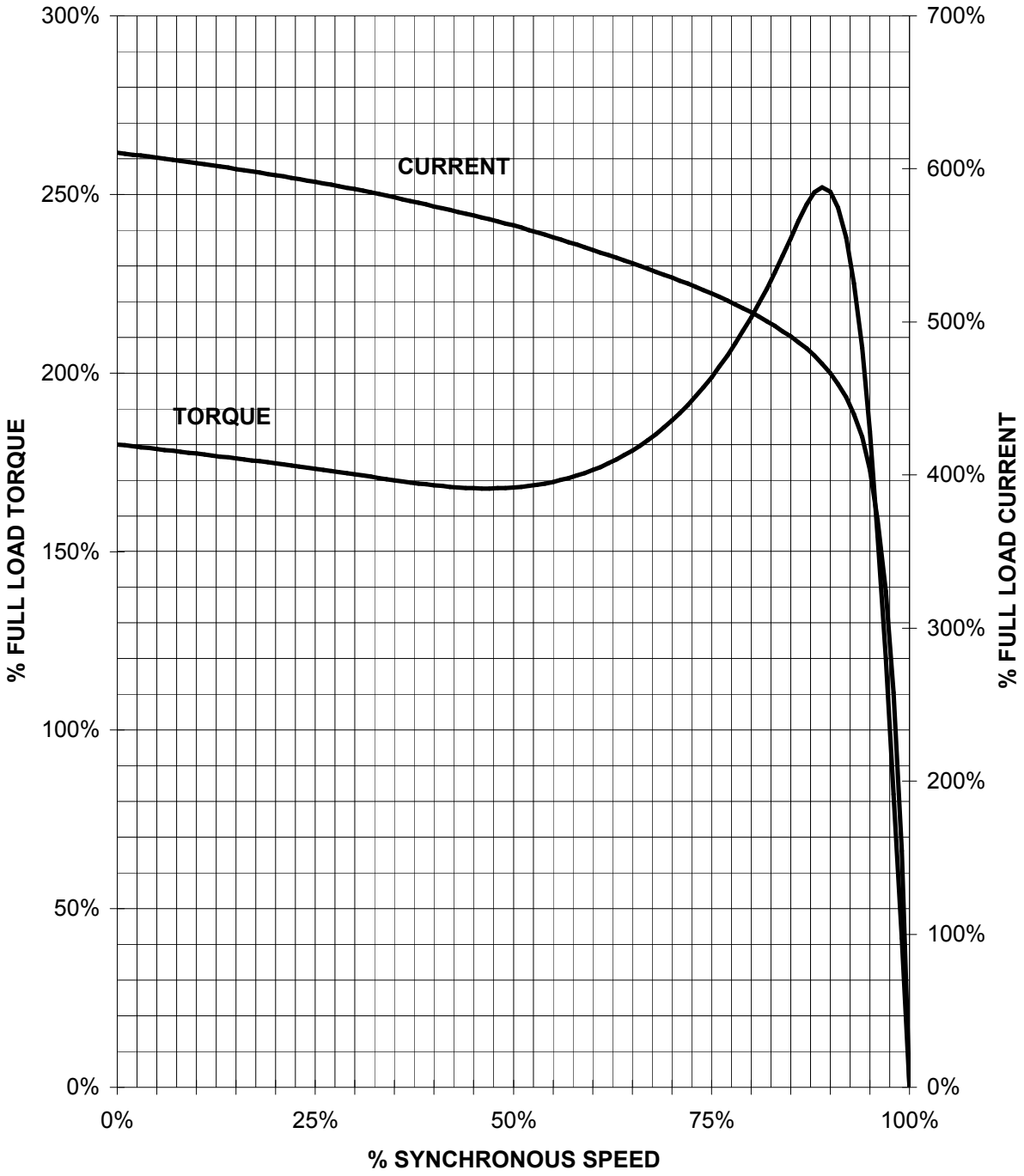
HP	25	VOLTS	< 600V	RPM	1800	TYPE	GP100
HZ	60	PHASE	3	FRAME	284T	NEMA	B

TORQUE & CURRENT VS. SPEED

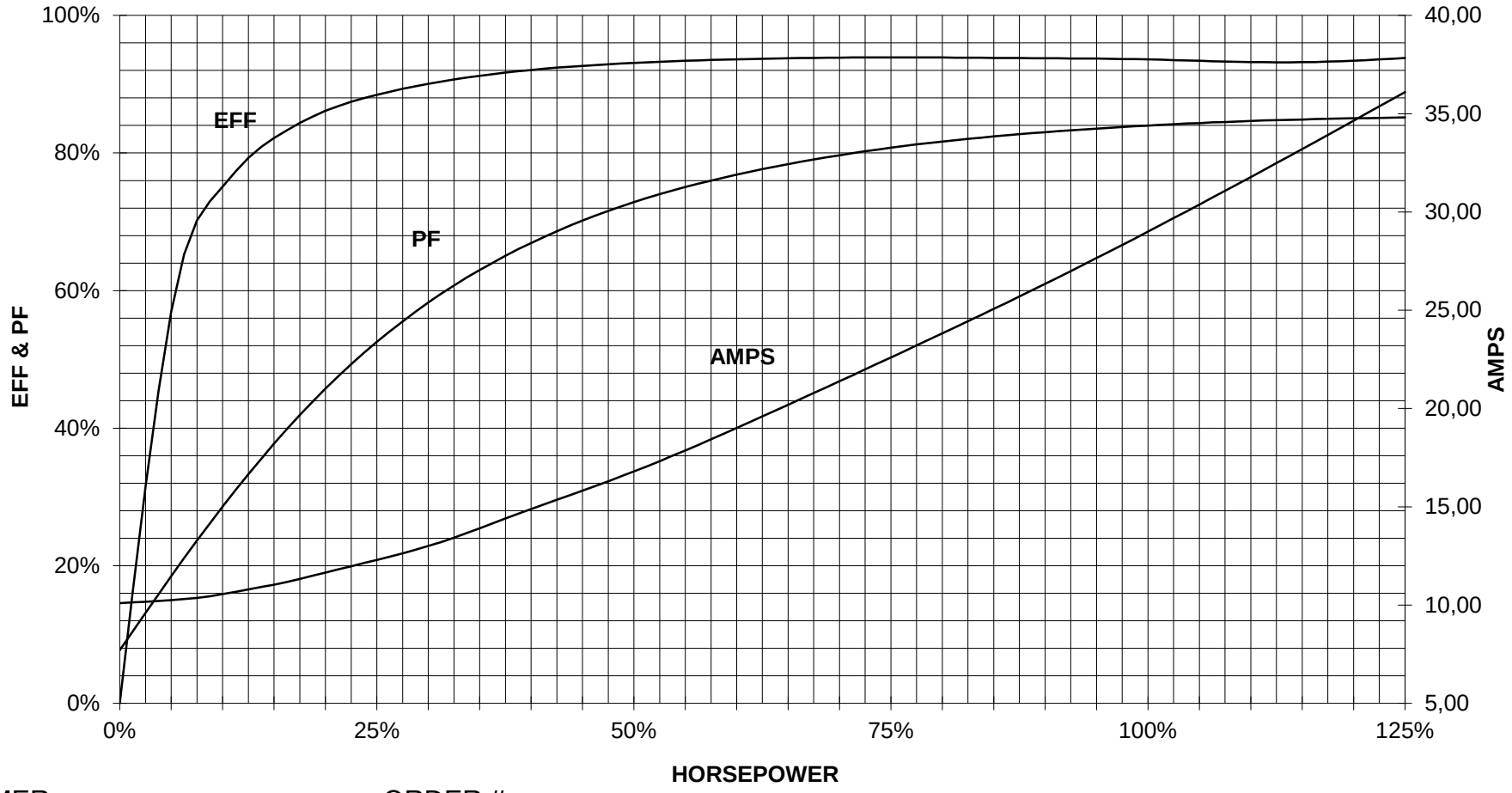


CUSTOMER: _____ ORDER#: _____

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

25 HP 1800 RPM 284T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100



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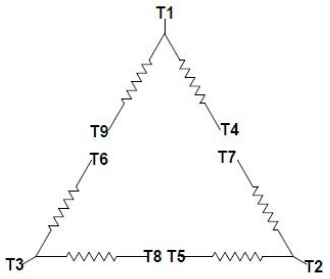
REV. 1

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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