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

Motor type: GP100 **FS: 184T - 6p - 2 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	Y	60	2.00	1.50	1,200	3.20	2.70	2.30	1.90	20.0	88.5	88.7	87.5	66.1	58.8	46.5	9.1	242	308
230	Y Y	60	2.00	1.50	1,200	6.40	5.39	4.60	3.80	40.0	88.5	88.7	87.5	66.1	58.8	46.5	9.1	242	308
400	Y	50	1.50		967	2.98	2.59	2.28	1.97	17.9	81.1	80.8	78.8	61.8	53.5	41.5	8.1	260	377
200	Y Y	50	1.50		967	5.96	5.18	4.56	3.94	35.8	81.1	80.8	78.8	61.8	53.5	41.5	8.1	260	377

Frame Type: 184T	Type of constr.: (G) Round body - C-Face	Ins. Cl.:Standard Class F Insulation	Motor Prot.:(A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT:112		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: J	IP 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	54.0 dB(A) / 63.0 dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3	36.0	46.0	52.0	47.0	41.0	31.0	dB(A)

Moment of inertia	0.3 Lb-ft²
Ext Load Inertia Capability:	30.0 Lb ft²

Bearings

Bearing DE | NDE	6206 ZZ C3 S0	6206 ZZ C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	30BC02JPP30	30BC02JPP30

Grease

Capacity	0.2 oz	0.2 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	23 s
Safe Stall Time Cold	32 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
VFD	CT: 4:1 VT: 20:1
Space heaters	without
Brake:	without

Terminal box

Lead Wire Connection	9 LEAD - WYE			
Voltage	L1	L1	L1	Connected together
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6
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	Aluminium
Cable entry	.75" 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*

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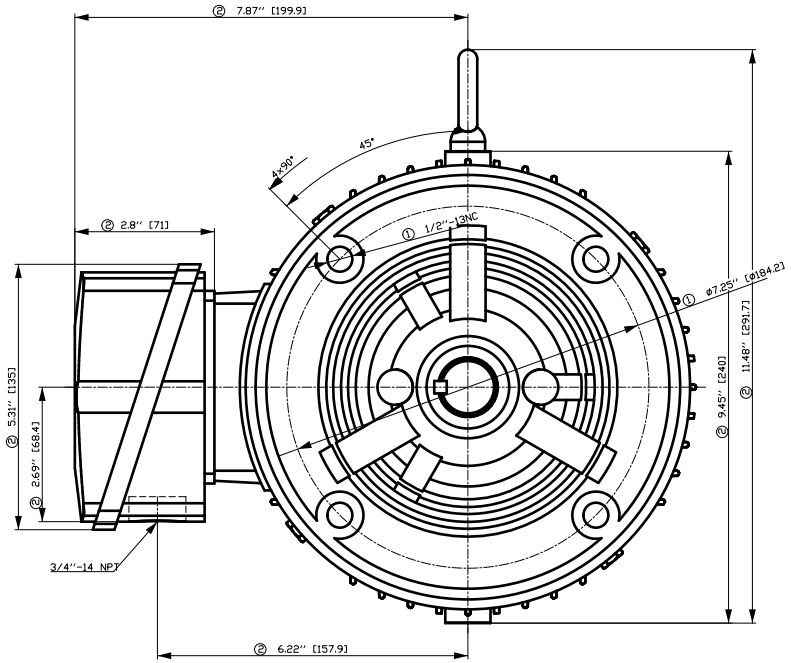
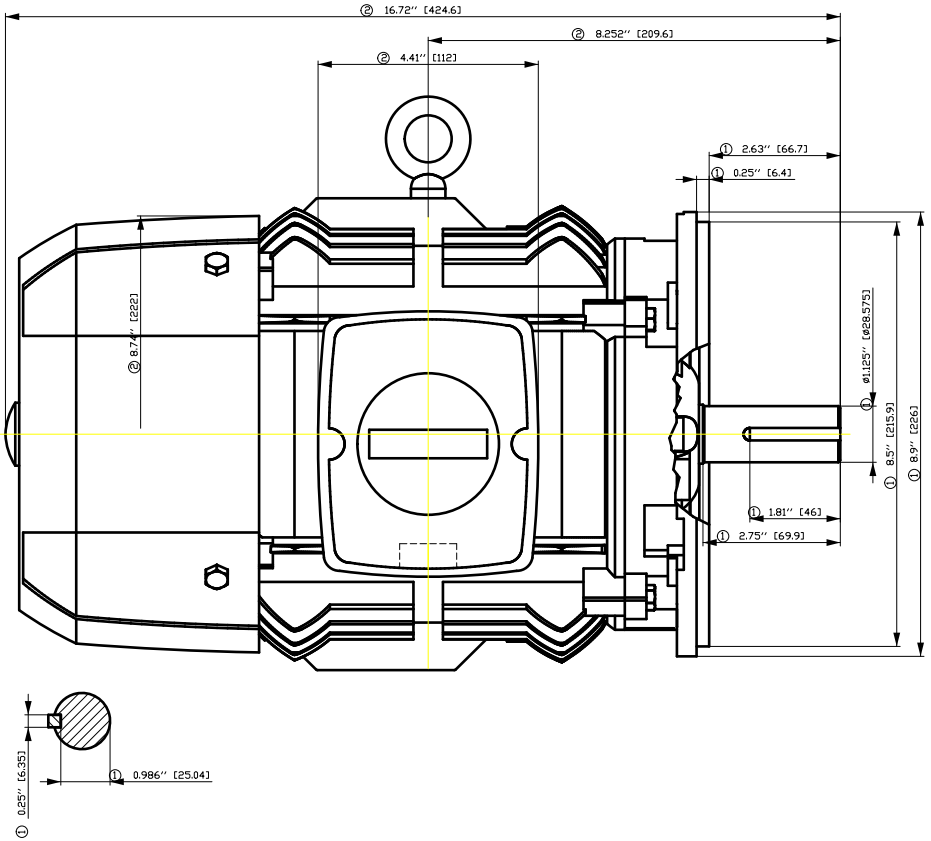
		rev.: 01	creation date: 2022-04-08 16:42	language: en / Page: 1/1



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
1LE2221-1CC31-4GA3	Author	Dimensional drawing		
-	Creator DTK	MaÇzeichnung		
	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
	Project No -	Ref No -		Sheet 1 of 1

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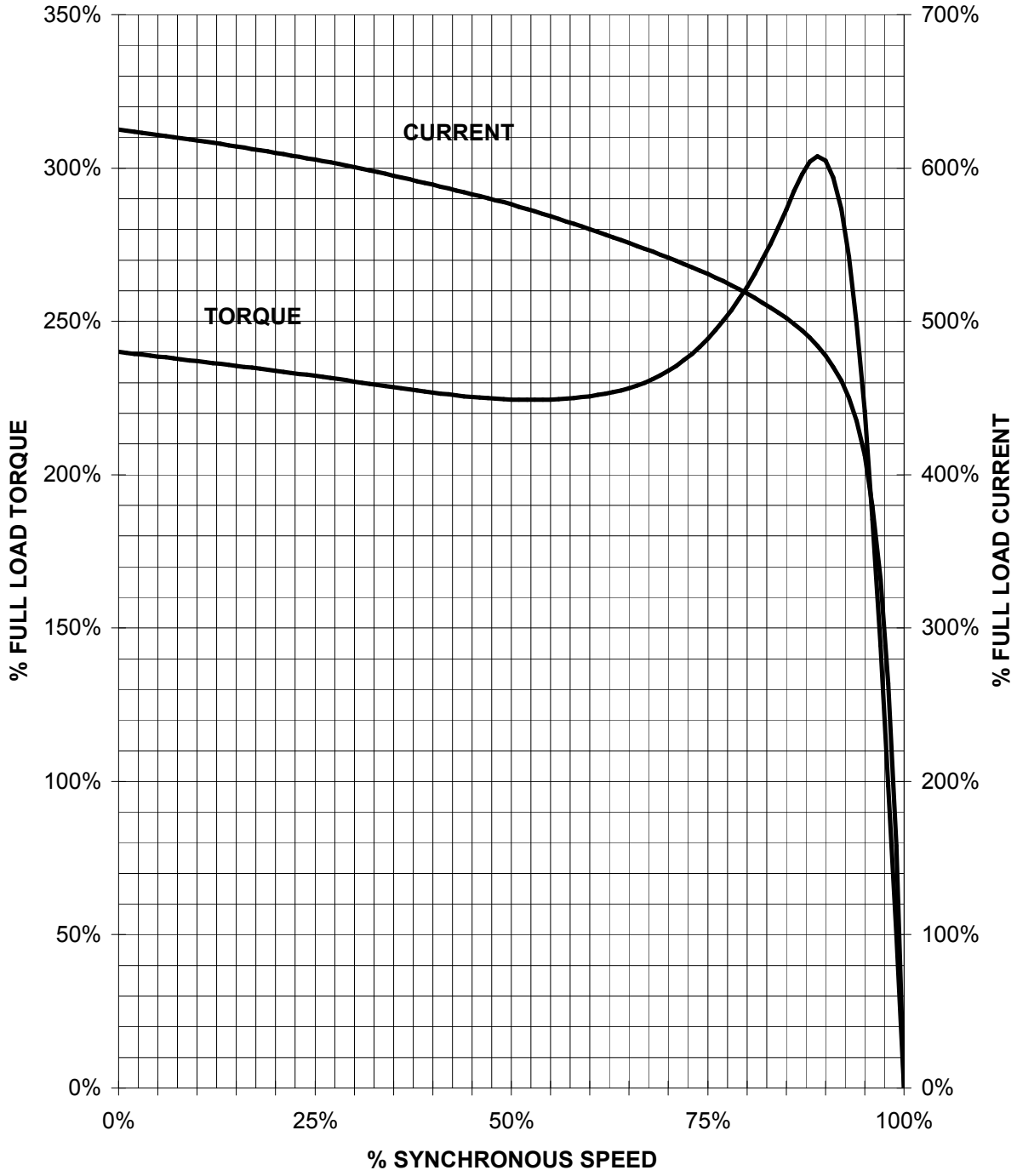
HP	2	VOLTS	< 600V	RPM	1200	TYPE	GP100
HZ	60	PHASE	3	FRAME	184T	NEMA	B

TORQUE & CURRENT VS. SPEED

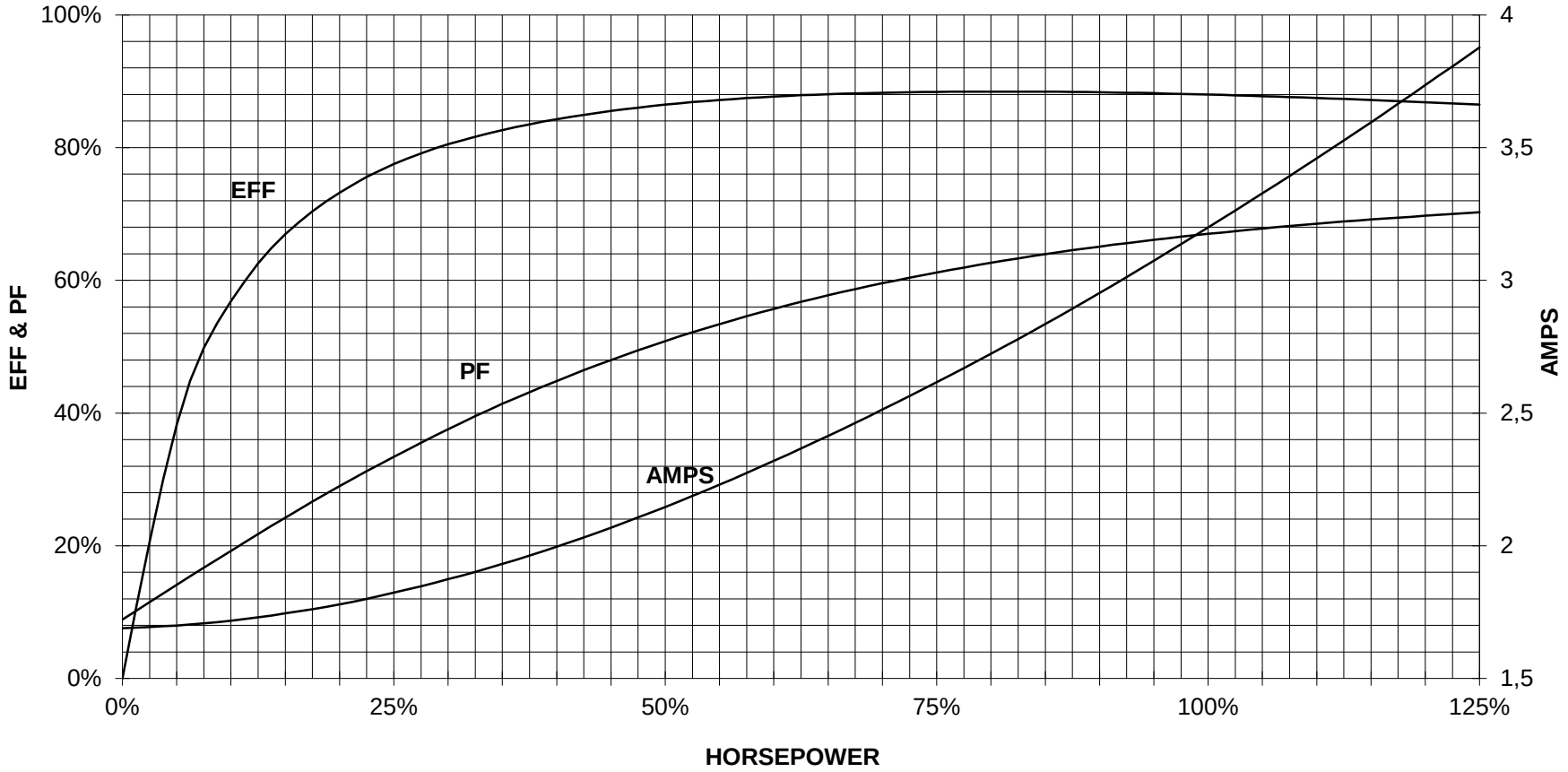


CUSTOMER: _____ ORDER#: _____

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

2 HP 1200 RPM 184T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100



CUSTOMER_____ ORDER #_____ PO #_____

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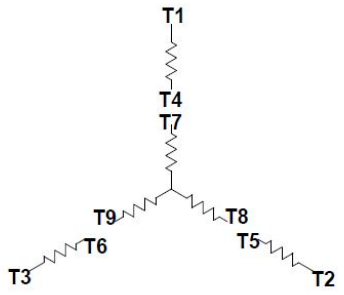
REV. 1

Main terminal diagram



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

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