SIEMENS

Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)

MLFB-Ordering data: **1LE2121-1AA11-4GA3**

Motor type: **GP100A - NEMA Premium Efficiency**

Client order no.:
Order no.:
Offer no.:
Remarks:

Item no.:
Consignment no.:
Project:

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	1/2	Pwr. Factor Load [%] 4/4	3/4	1/2	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460	Y	60	1.00	0.75	3,520	1.40	1.10	0.90	0.70	12.0	82.5	82.1	79.3	81.1	77.4	65.2	1.5	173	380
230	Y Y	60	1.00	0.75	3,520	2.80	2.21	1.81	1.40	24.0	82.5	82.1	79.3	81.1	77.4	65.2	1.5	173	380

Frame Type 143TC	Type of constr.: (G) Round body - C-Face	Ins. Cl.: F	Motor Prot.: (A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr WT: 39 lbs	Mounting: (3) F-1, Standard Floor Mount, T. Box LHS	Temp. Rise Cl.: B	Amb. Temp.: +40 to -20 °C @1000 m	kVA: L	IP55

Mechanical data

WK2

Rotor Moment of Inertia:	0	Lb-ft²
Ext Load Inertia Capability:	0.0	Lb-ft²

Safe Stall Time

Hot:	12.0	s
Cold:	16.0	s

Typical Noise Data

A-weighted Sound

Sound Pressure:	76.0	dB(A)
Sound Power:	64.0	dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	44.0	52.0	62.0	59.0	54.0	46.0	dB(A)

Bearings

	DE	NDE
Bearing size:	6205 ZZ C3 S0	6205 ZZ C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	25BC02JPP30	25BC02JPP30

Grease

Capacity:	0.10 oz	0.10 oz
Type:	Exxon Mobile EM	
Thickener:	Polyurea	

Frame

Frame material:	aluminum
Coating (paint finish):	Standard Paint
Color, paint shade:	RAL 7030

Terminal box

Terminal box position:	(3) F-1, Standard Floor Mount, T. Box LHS

Lead Wire Connection

Description: 9 LEAD - WYE

Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Y Y
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

Ventilation Type

Type of Cooling:	TEFC
Fan Material:	Polypropylen
Fan Rotation:	Bidirectional

Additional information

VFD Operation: CT: 4:1 VT: 20:1

Area: classification: without

Notes

I_A/I_N = locked rotor current / current nominal
T_A/T_N = locked rotor torque / torque nominal
T_k/T_N = break down torque / nominal torque
[1)] Value is valid only for DOL operation with motor design IC411

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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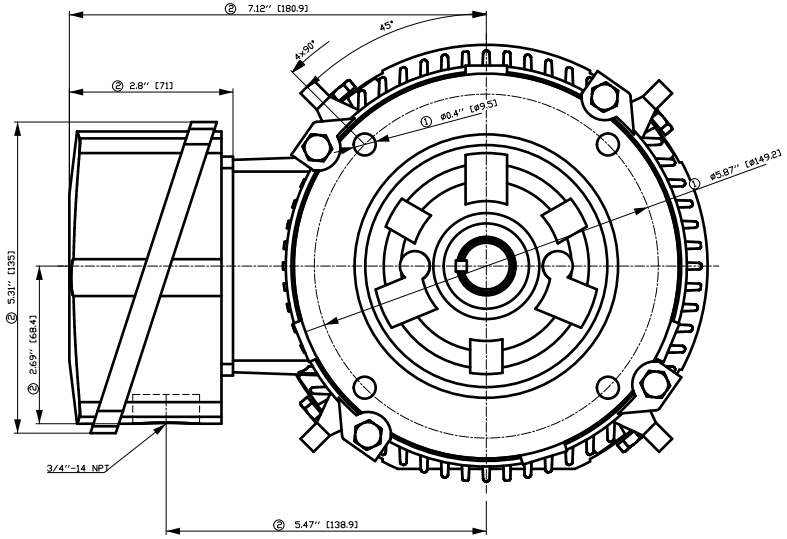
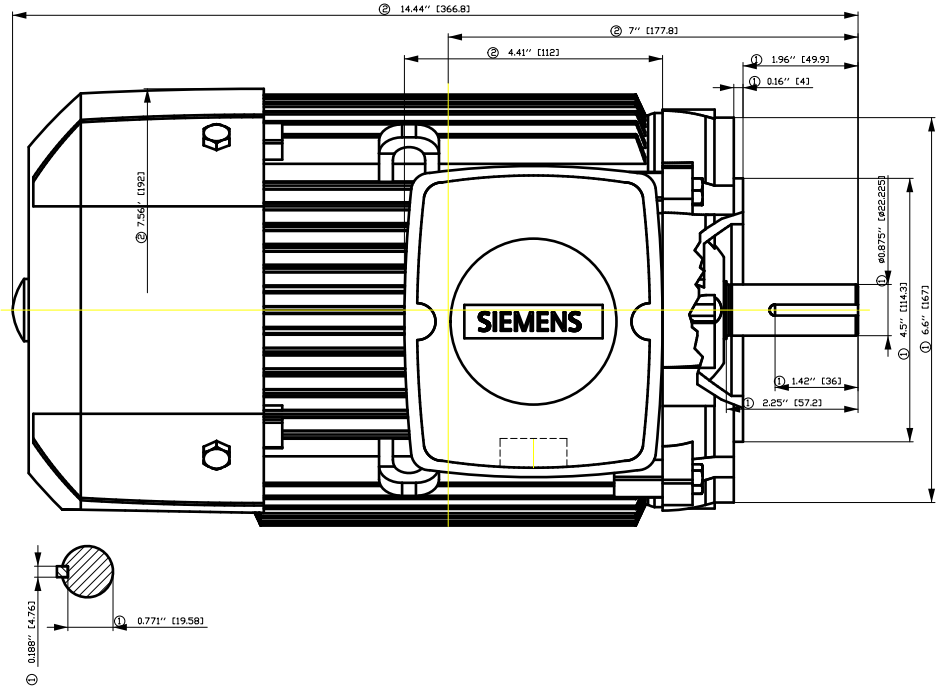


① Tolerances according to NEMA std.

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
1LE2121-1AA11-4GA3 -	Author Creator DTK Approval Department Change Order	Dimensional drawing MaÇzeichnung		
SIEMENS	Doc State 10/14/20 Revision Index RS	MLFB	Doc Type	
		Item No	Paper Size A3	
		Doc No	1st Language en 2nd Language de	
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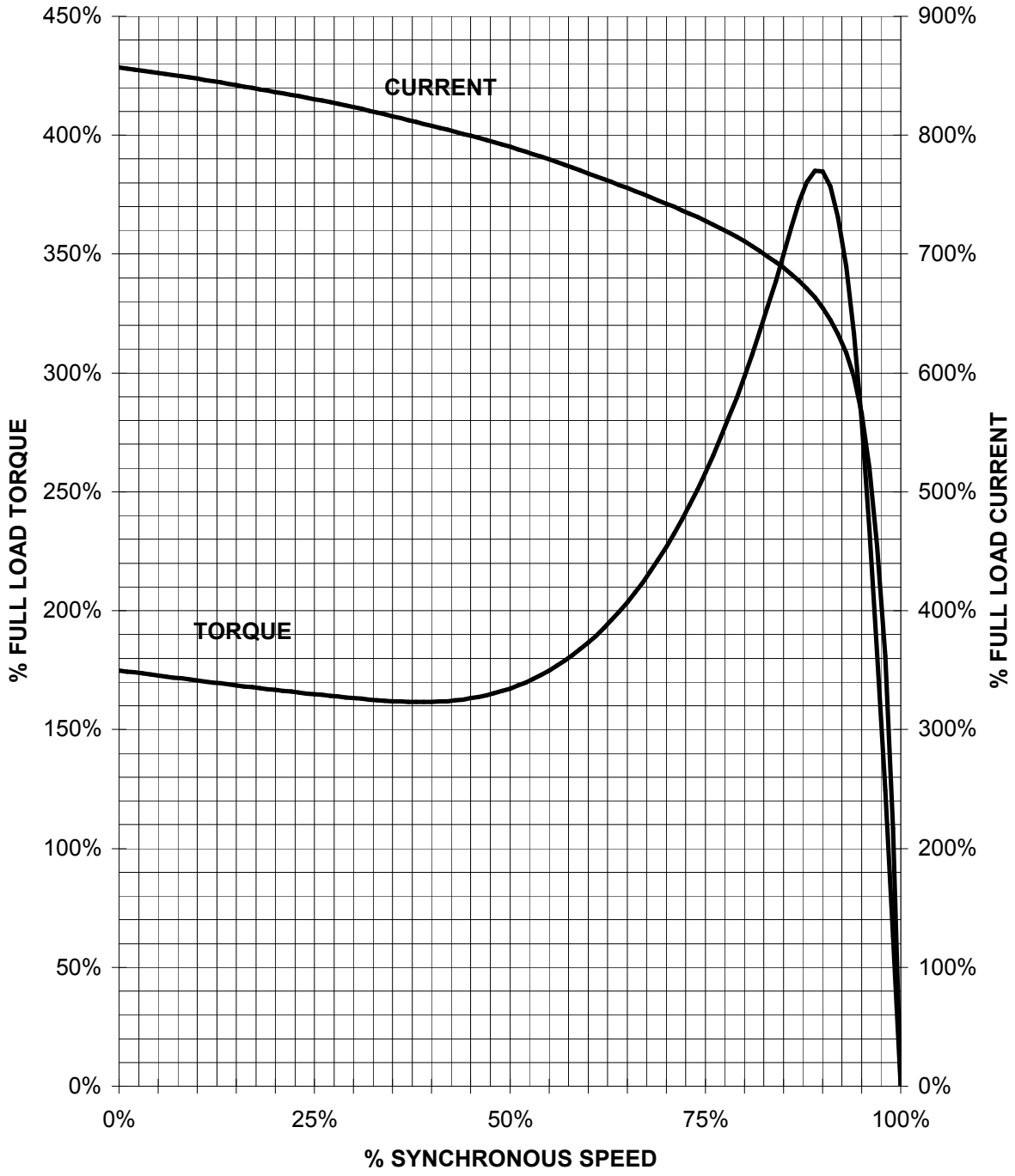
HP	1	VOLTS	< 600V	RPM	3600	TYPE	GP100A
HZ	60	PHASE	3	FRAME	143T	NEMA	B

TORQUE & CURRENT VS. SPEED

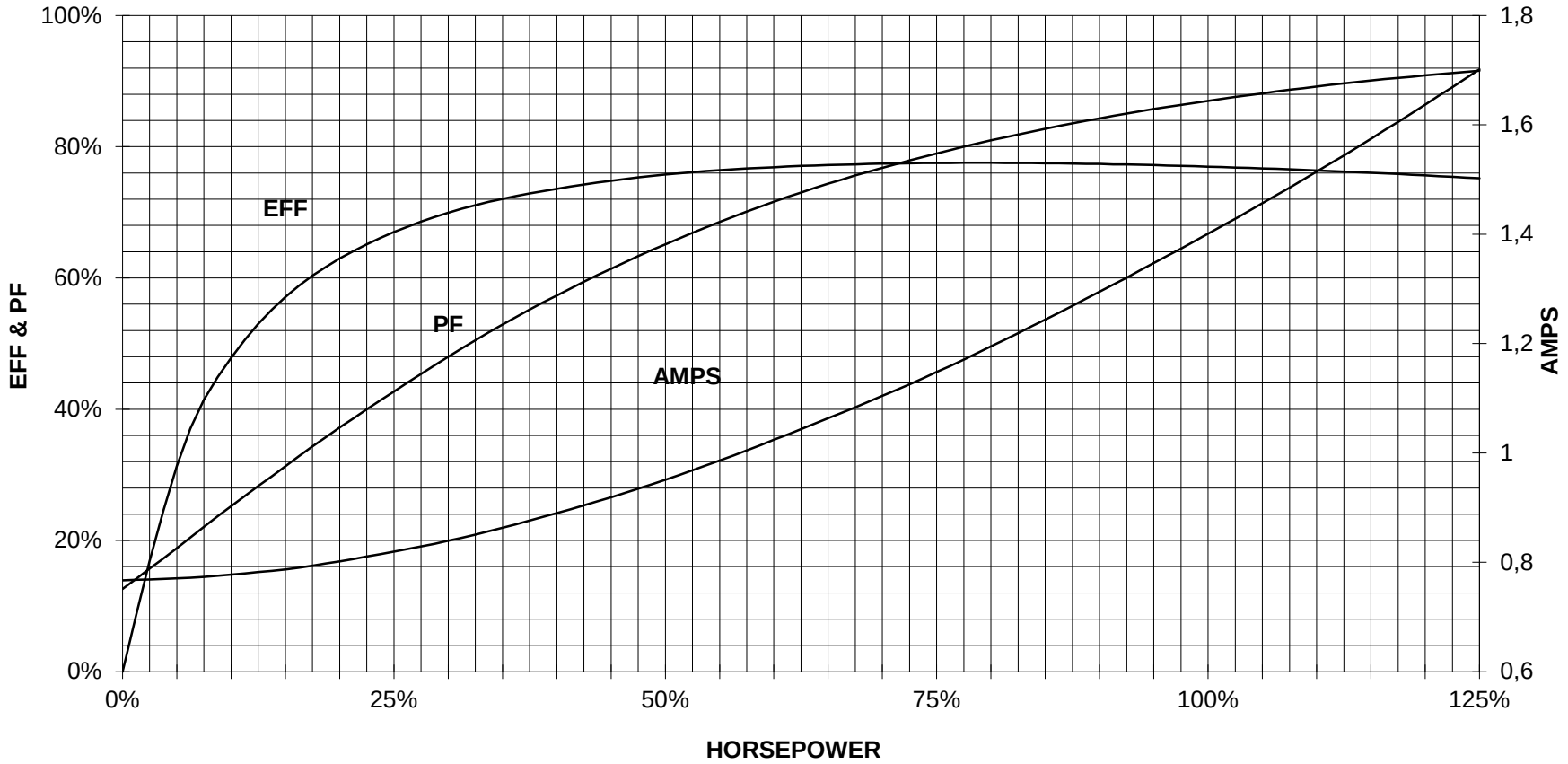


CUSTOMER: _____ ORDER#: _____

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

1 HP 3600 RPM 143 FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100A NP



CUSTOMER_____ ORDER #_____ PO #_____

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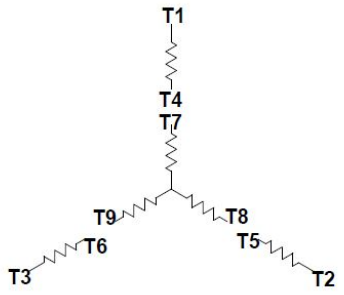
REV. 1

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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