



NEMA Motor Data

Ordering data : 1LE2121-1AB31-4EA3

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

Item no. :
Consignment no. :
Project :

Nameplate Data	Mounting and motor protection
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Type	GP100A - NEMA Premium Efficiency		
HP	1.5	Rating	Cont.
Voltage	(14) 208-230/460V,	Ins. Class	Class F (Standard)
Amps	4.2 / 2.1 A	S.F.	1.15
FL RPM	1740	Amb. Temp.	40 deg C
FL Efficiency	86.5 %	Temp. Rise	Class B
FRAME	145TC	kVA Code	L
DE AFBMA	25BC02JPP30	NEMA Des	B
ODE AFBMA	25BC02JPP30	Mtr WT	46.96
60 Hertz	3 Ph	TEFC	IP 35

Type of construction	(E) Foot mounted - C-Face
Motor protection	(A) No winding protection
Terminal box design	(3) Mounting - F-1

Bearing Data		
	DE	ODE
Bearing Size	6205 ZZ C3 S0	6205 ZZ C3 S0
Bearing Type	Ball Bearing	Ball Bearing
AFBMA	25BC02JPP30	25BC02JPP30

Typical Performance Data					
Load	No Load	1/2	3/4	Full Load	LRC
Efficiency		85.8 %	87.0 %	86.5 %	
Power Factor		58.5	71.8	77.3	
Current (A)	1.1 A	1.4 A	1.7 A	4.2 / 2.1 A	19.0 A
Inverter Duty	VT	20:1	CT	4:1	

Mechanical Data				
SAFE STALL TIME	HOT (s)	15	COLD (s)	21
Rtr wt (lbs)	14.79	Rtr WK2	0.17	
FLT (lb-ft)	4.500	LRT	333	BDT 422
Ext Load Inertia (WK2) Capability		105.0 lb-ft²		

Typical Noise Data									
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A-weighted Sound	Octave Band Center Frequencies Hertz (Hz)								
Pressure Level	125	250	500	1000	2000	4000	8000	SPL	55
at 3 feet	28	45	47	52	49	43	35	SPw rL	64

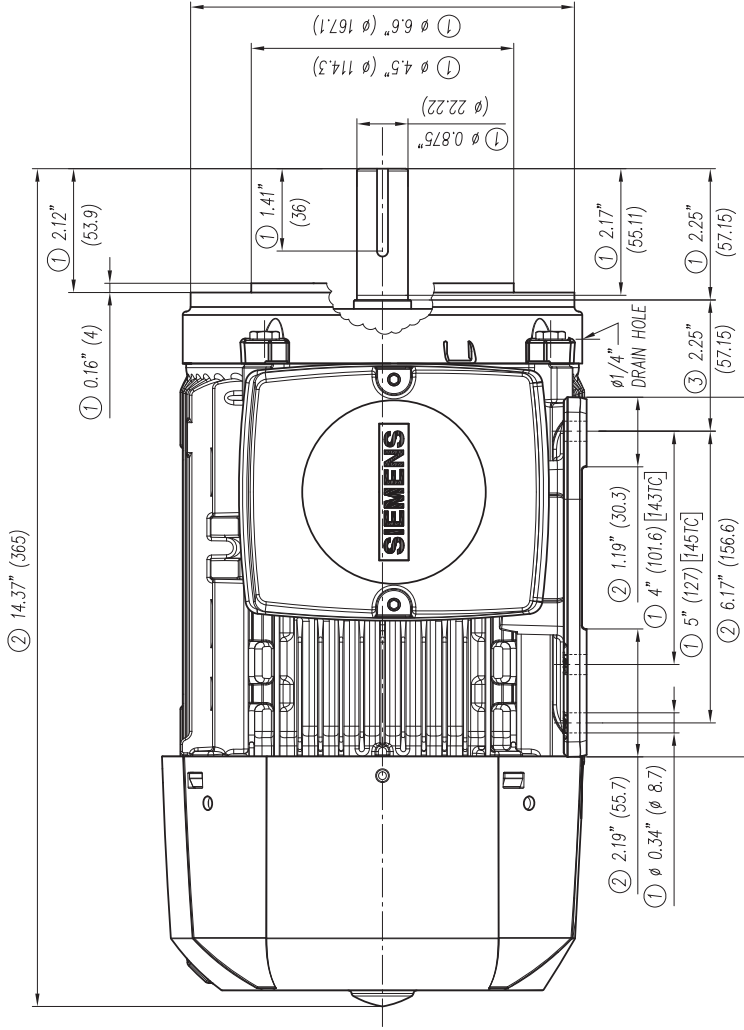
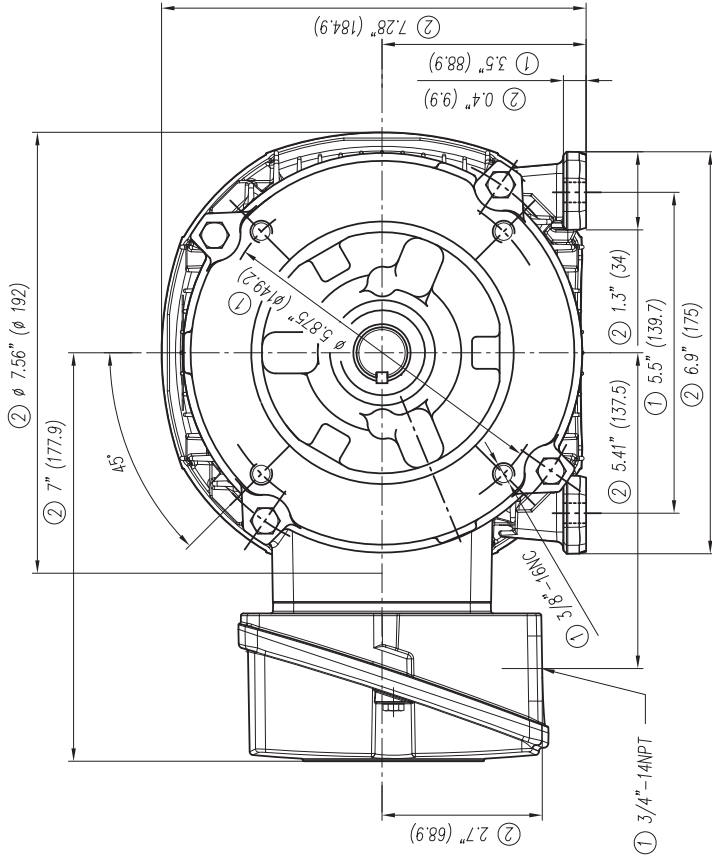
Wiring Connection Information				
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Special design :				
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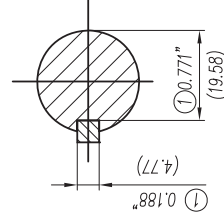
Description	3 PHASE - 9 LEAD - WYE				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Y Y
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

Lubrication Information				
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Manufacturer	Mobil Polyrex EM or equal
Type	Polyurea (standard)
DE Capacity (oz.)	0.10
ODEnd Capacity (oz.)	0.10



- 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.



Keyseat detail

CERTIFIED PRINT					
CUSTOMER					
SIGNATURE					
DATE	FRAME	TYPE	WELDS	FIN	INZ

②

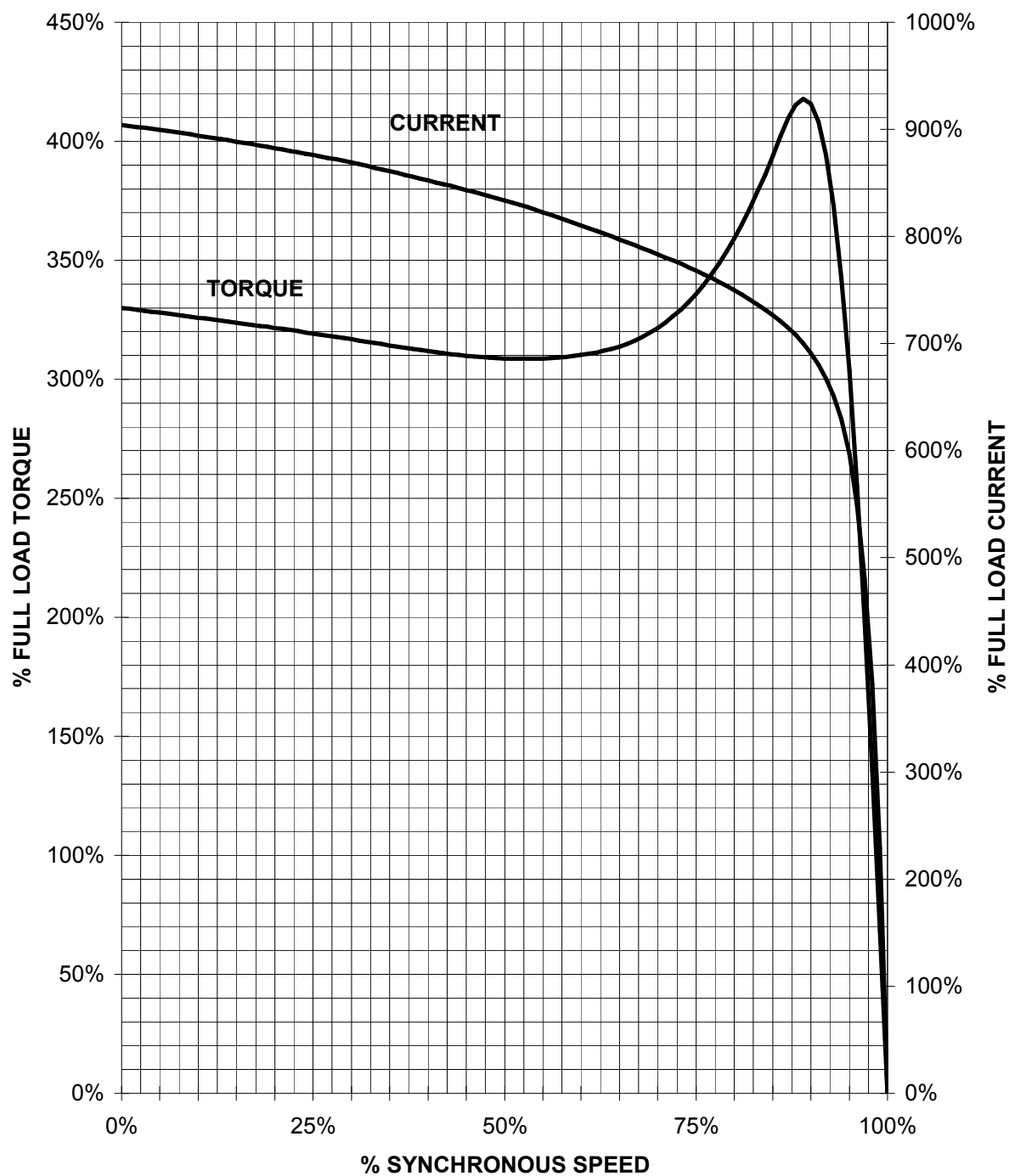
Tolerance in mm. according to DIN-1686-GTB-19		Quantity		Parts and Measure		Drawing No. Norm No.		Item No.		Material		Weight Lbs.	
to 18	± 4.5	04	03	02	01								
Over 18 to 30	± 4.7												
Over 30 to 50	± 5												
Over 50 to 80	± 5.5												
Over 80 to 120	± 6												
Over 120 to 180	± 6.5												
Over 180 to 250	± 7												
Over 250 to 315	± 7.5												
Over 315 to 400	± 8												
Over 400 to 500	± 8.5												
Over 500 to 630	± 9.5												
Over 630 to 800	± 10												

European Projection		Dimensions in inches		Name		Scale	
Drawn	6/Jul/2006	Checked		Modific		W/O	
Std. Ckd							
SIEMENS		3MSE 220 0866		NEMA		2.4 & 6 Pol.	
GUADALAJARA FACTORY		Ref. 3MSE 220 851		Replace.		2/2	

SIEMENS INDUSTRY, INC.

HP 1,5 VOLTS < 600V RPM 1800 TYPE GP100A
HZ 60 PHASE 3 FRAME 145T NEMA B

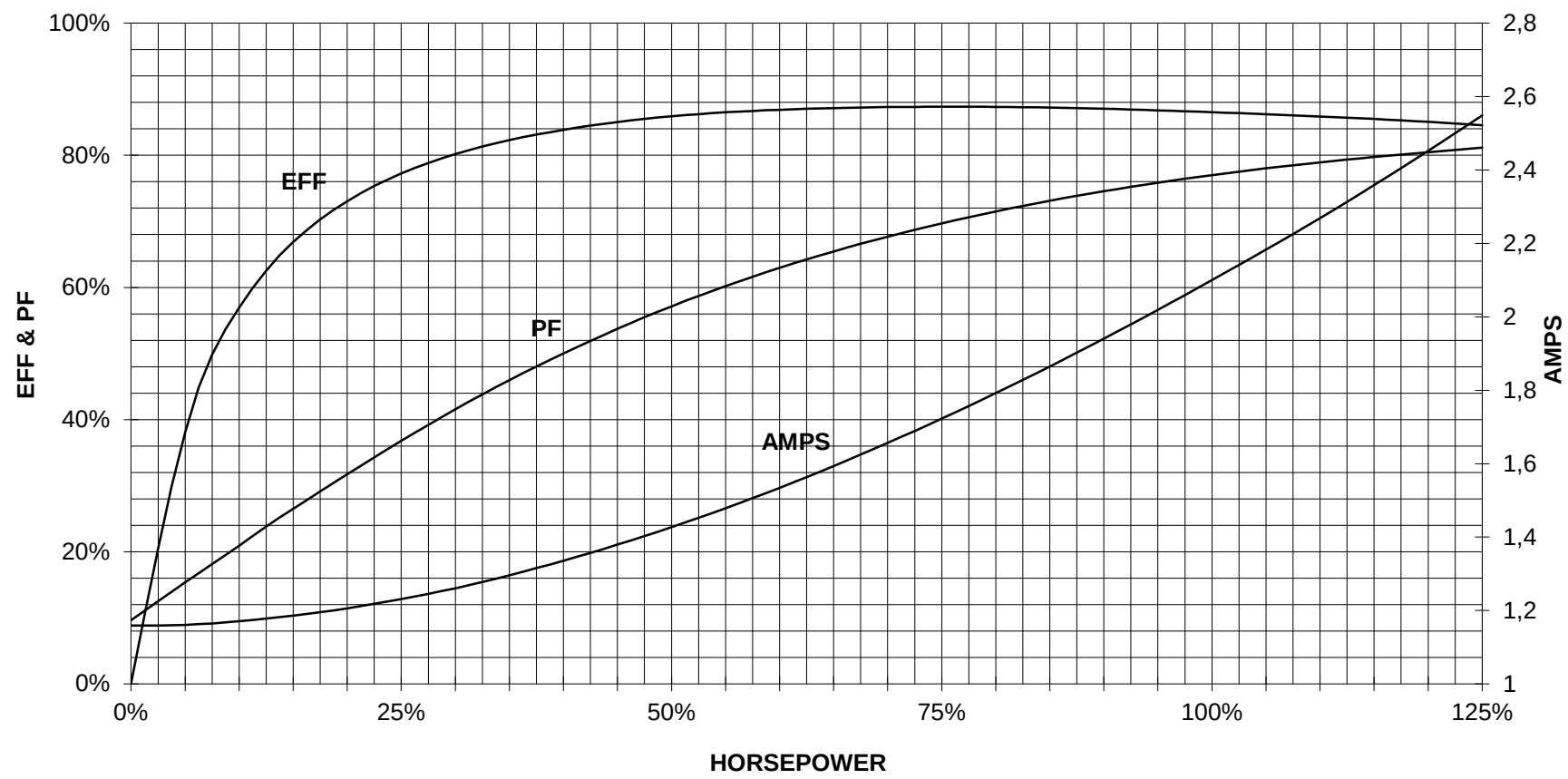
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

1.5 HP 1800 RPM 145 FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100A NP

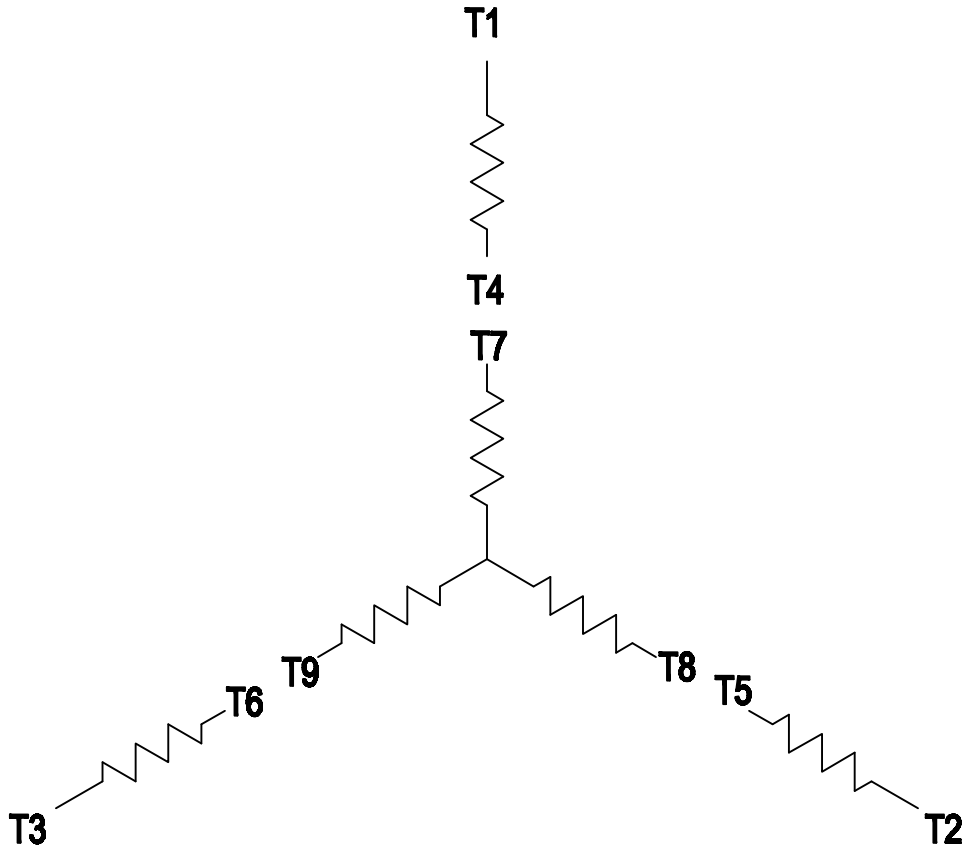


CUSTOMER _____ ORDER # _____ PO # _____

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

3 PHASE - 9 LEADS - WYE

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



THIS IS A CAD DRAWING
DO NOT MAKE MANUAL CHANGES

01 09-27-07

TYPE

-CONFIDENTIAL-

PROPERTY OF

Siemens Energy & Automation, Inc.
Industrial Motor Division - Little Rock, AR

FRAME

HP

NAME

WIRING DIAGRAM

Customer

VOLTS

RPM

HZ

PH

3

PO #

SO #

DRAWN

9.24.07

DATE

JRH

CHECKED

DATE

APP

DATE

SHEET

1 OF 1

Sim. To

PART NO.

51-382-114-501

A