

NEMA Motor Data



Ordering data : 1LE2121-2BB11-4EA3

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			Rating	Cont.
HP	15.0			Ins. Class	Class F (Standard)
Voltage	(14) 208-230/460V,			S.F.	1.15
Amps	38.0 / 19.0 A			Amb. Temp.	40 deg C
FL RPM	1770			Temp. Rise	Class B
FL Efficiency	92.4 %			kVA Code	G
FRAME	254TC			NEMA Des	B
DE AFBMA	45BC02JPP30			Mtr WT	197.98
ODE AFBMA	45BC02JPP30			IP	35
60 Hertz	3 Ph	TEFC			

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	6209 ZZ C3 S0	6209 ZZ C3 S0
Bearing Type	Ball Bearing	Ball Bearing
AFBMA	45BC02JPP30	45BC02JPP30

Typical Performance Data					
Load	No Load	1/2	3/4	Full Load	LRC
Efficiency		92.3 %	92.8 %	92.4 %	
Power Factor		64.5	74.7	80.0	
Current (A)	11.8 A	11.8 A	15.2 A	38.0 / 19.0	116.0 A
Inverter Duty	VT	20:1	CT	4:1	

Mechanical Data				
SAFE STALL TIME	HOT (s)	21	COLD (s)	33
Rtr wt (lbs)	63.97	Rtr WK2	1.68	
FLT (lb-ft)	44.000	LRT	184	BDT 234
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	72
at 3 feet	49	60	67	68	66	63	50	SPwrl	83

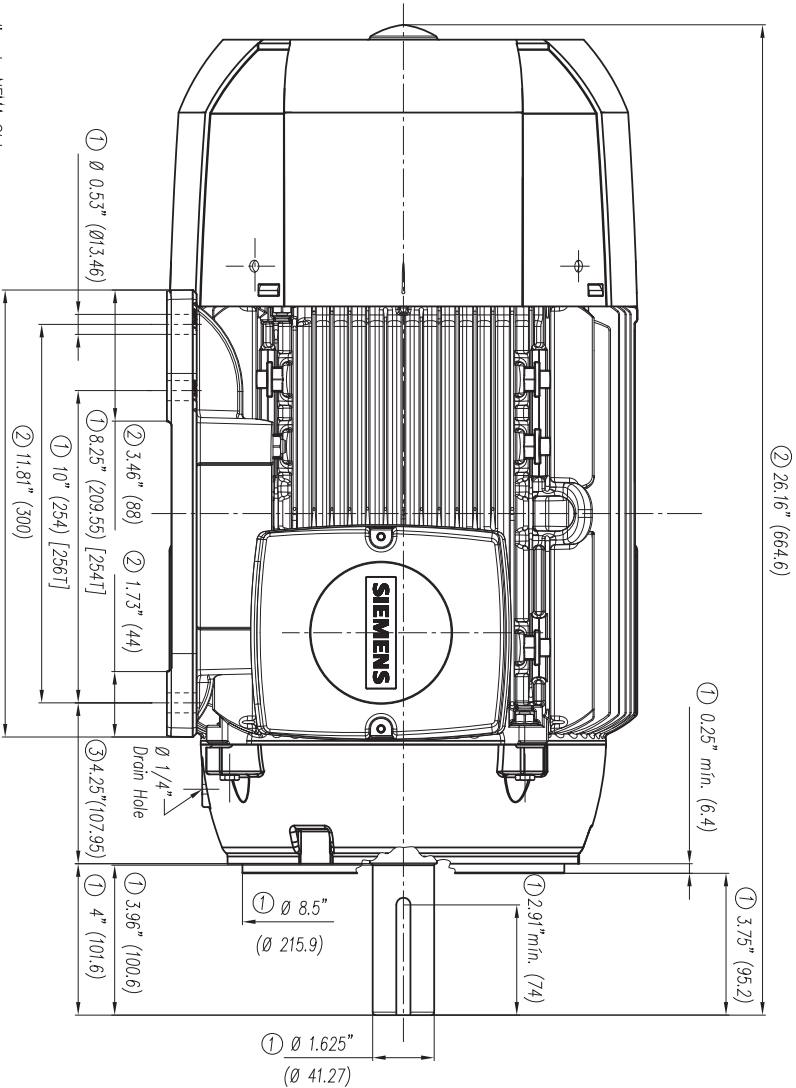
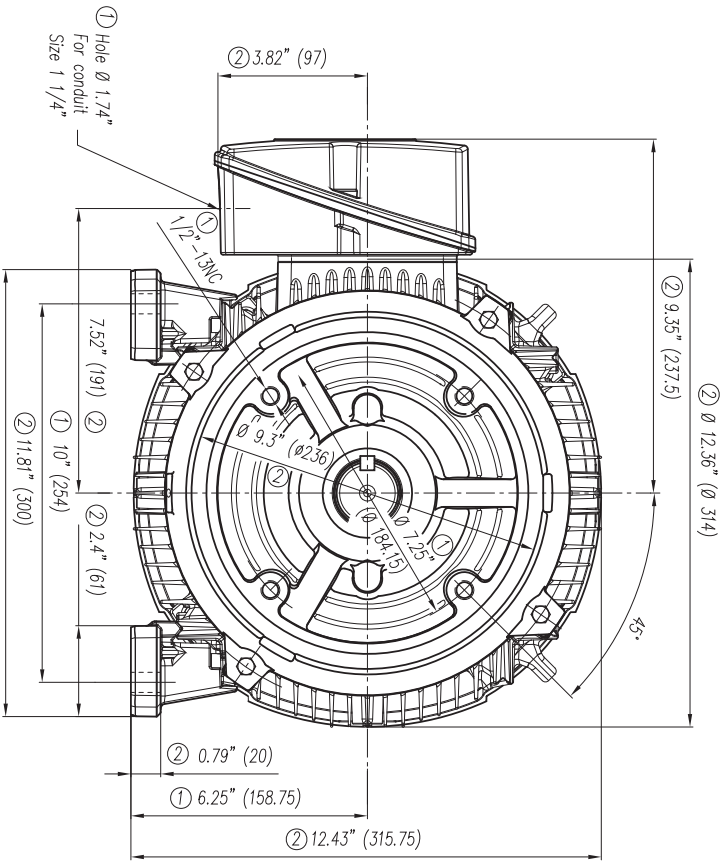
Wiring Connection Information				
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Special design :				
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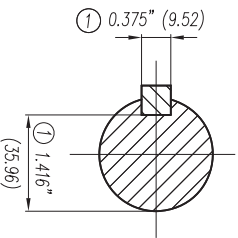
Description	3 PHASE - 9 LEAD - WYE				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Y Y
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

Lubrication Information				
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Manufacturer	Mobil Polyrex EM or equal
Type	Polyurea (standard)
DE Capacity (oz.)	0.50
ODEnd Capacity (oz.)	0.50



- 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

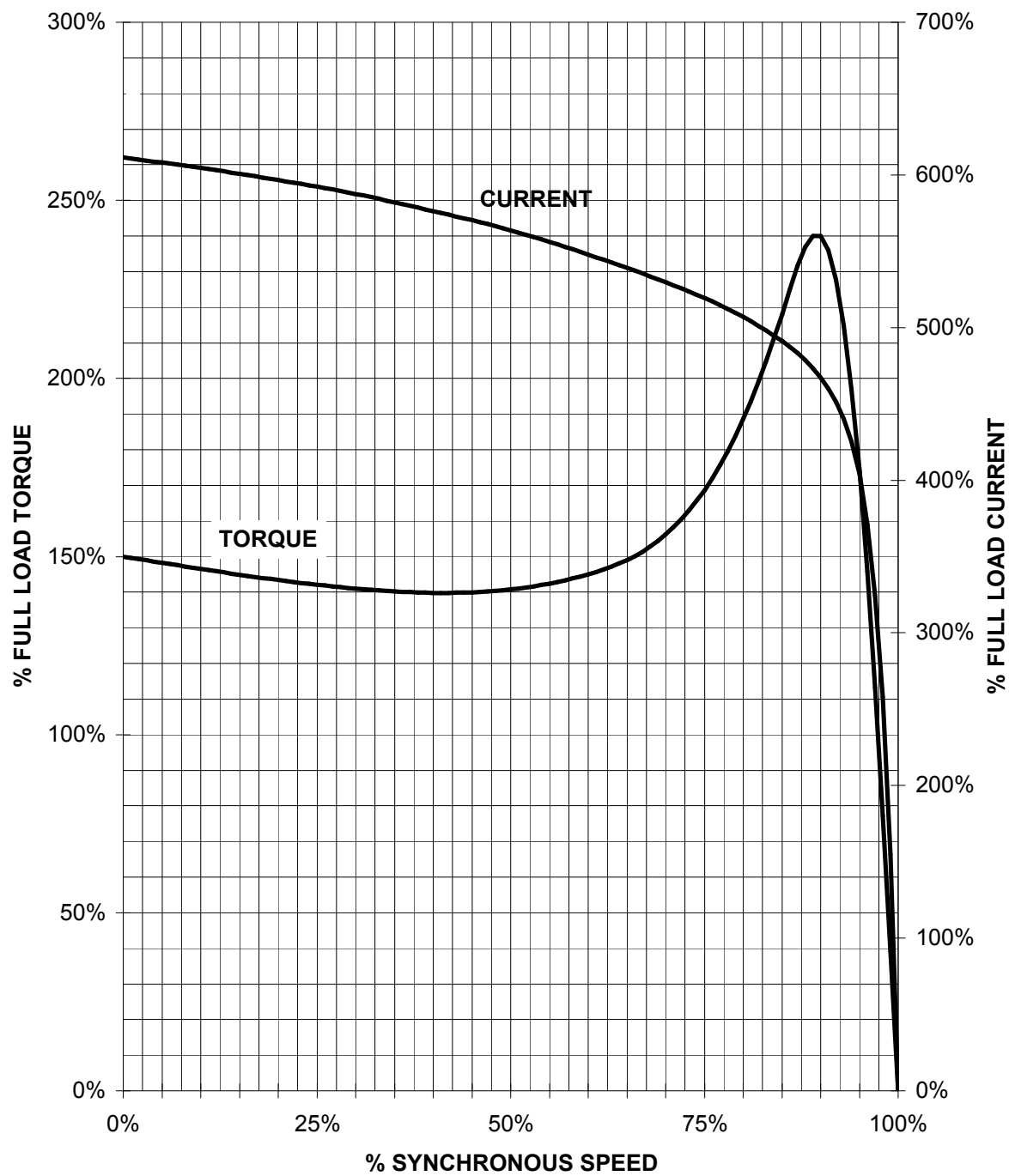
CERTIFIED PRINT					
DESIGNER					
Rev		Sd			
By		Type			
Date		Mkt			
Rev		Mkt			

Tolerance in mm. according to DIN-1686-GTB-19		Quantity		Parts and Measure		Drawing No.		Item No.		Material		Weight Lbs.	
to 18	± 4.5	04.03	02.01			Norm No.							
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												
Remark													

SIEMENS INDUSTRY, INC.

HP 15 VOLTS < 600V RPM 1800 TYPE GP100A
HZ 60 PHASE 3 FRAME 254T NEMA B

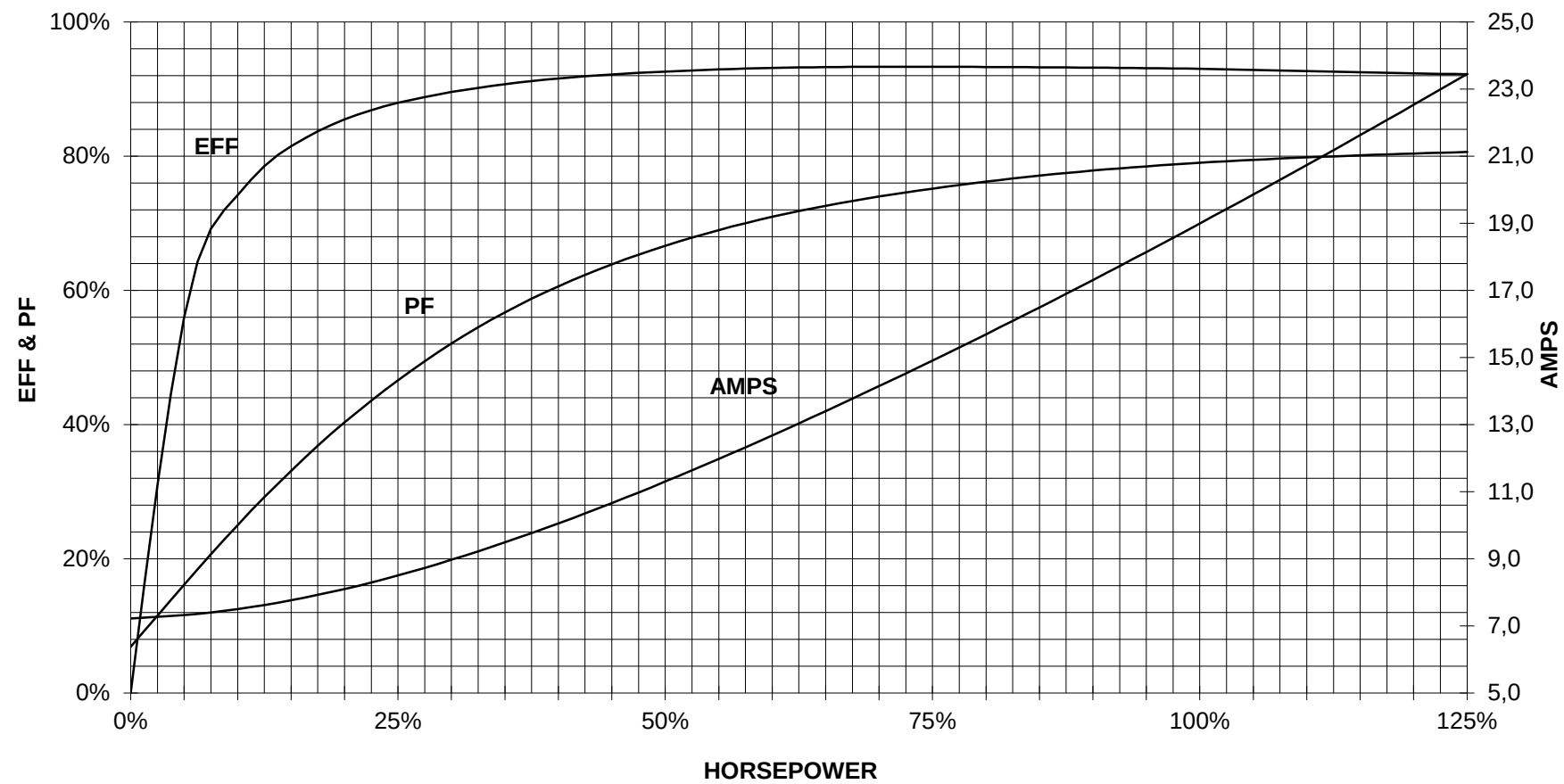
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

15 HP 1800 RPM 254 FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100A NP

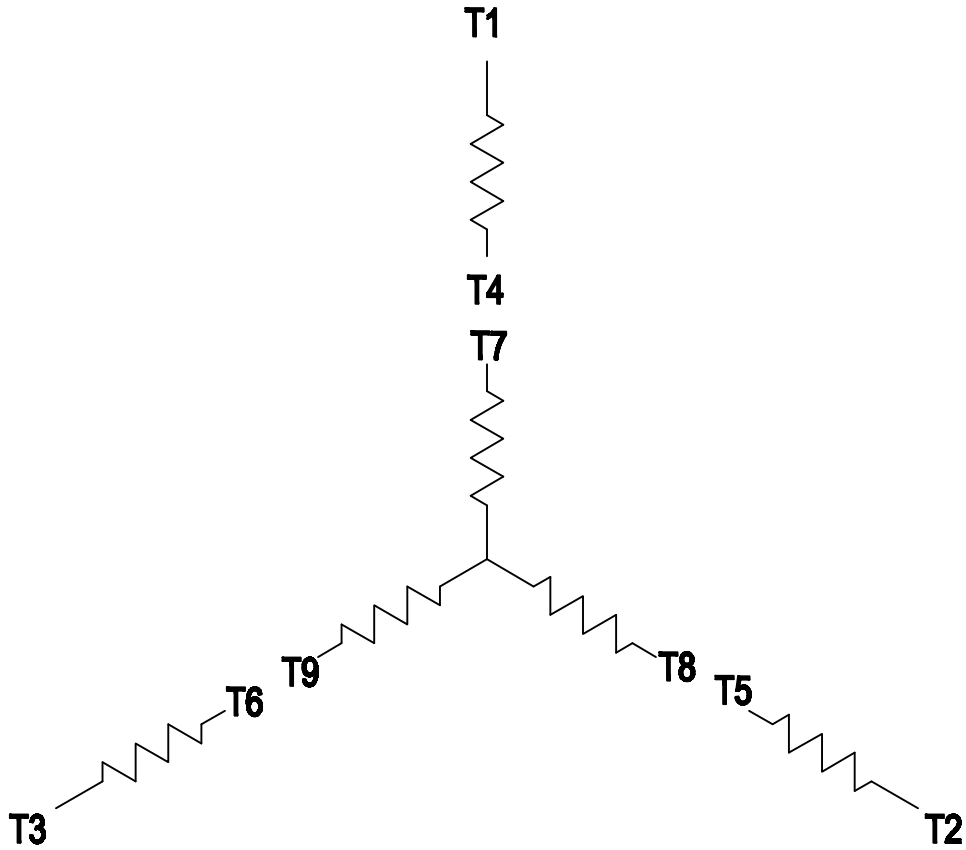


CUSTOMER _____ ORDER # _____ PO # _____

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