

NEMA Motor Data



Ordering data : 1LE2121-2BA11-4AA3

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	15.0	Rating	Cont.
Voltage	(14) 208-230/460V,	Ins. Class	Class F (Standard)
Amps	35.0 / 17.5 A	S.F.	1.15
FL RPM	3530	Amb. Temp.	40 deg C
FL Efficiency	91.0 %	Temp. Rise	Class B
FRAME	254T	kVA Code	G
DE AFBMA	45BC02JPP30	NEMA Des	B
ODE AFBMA	45BC02JPP30	Mtr WT	195.99
60 Hertz	3 Ph	TEFC	IP 35

Type of construction	(A) Foot mounted - End shield
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		90.7 %	91.3 %	91.0 %	
Power Factor		80.6	87.4	88.2	
Current (A)	5.1 A	9.6 A	13.2 A	35.0 / 17.5	116.0 A
Inverter Duty	VT	20:1	CT	4:1	

Mechanical Data					
SAFE STALL TIME	HOT (s)	24	COLD (s)	48	
Rtr wt (lbs)	53.82	Rtr WK2	1.13		
FLT (lb-ft)	22.000	LRT	209	BDT	259
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	83
at 3 feet	53	65	77	78	77	71	61	SPw _r L	93

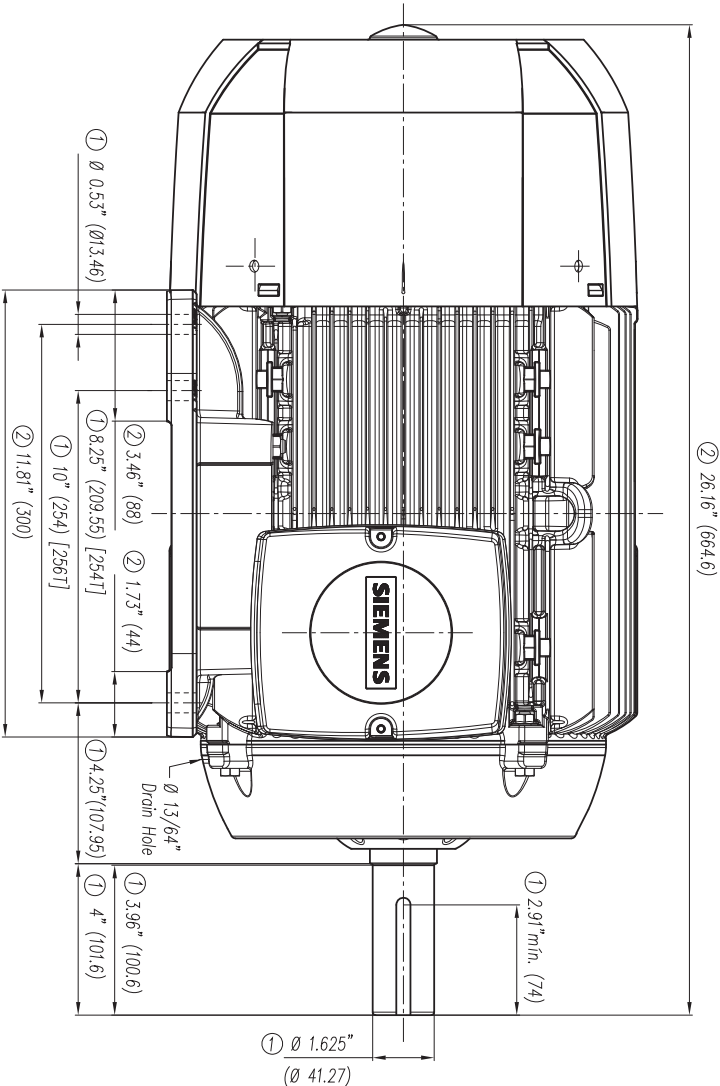
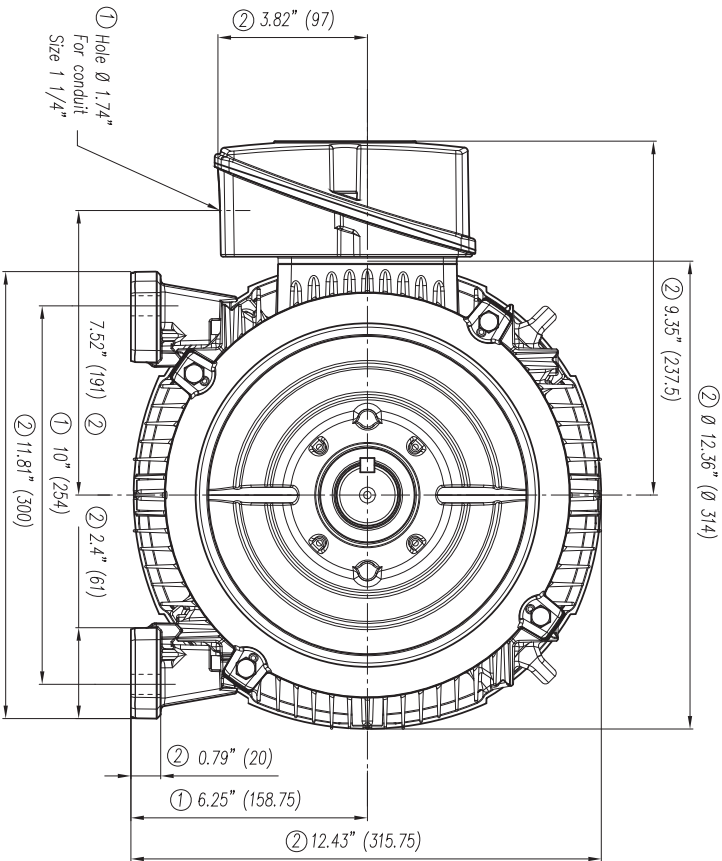
Wiring Connection Information				
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Special design :				
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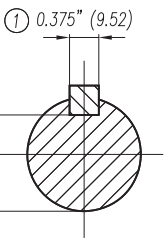
Description	3 PHASE - 9 LEAD - WYE				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Y Y
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

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.



Keyseat detail

CERTIFIED PRINT

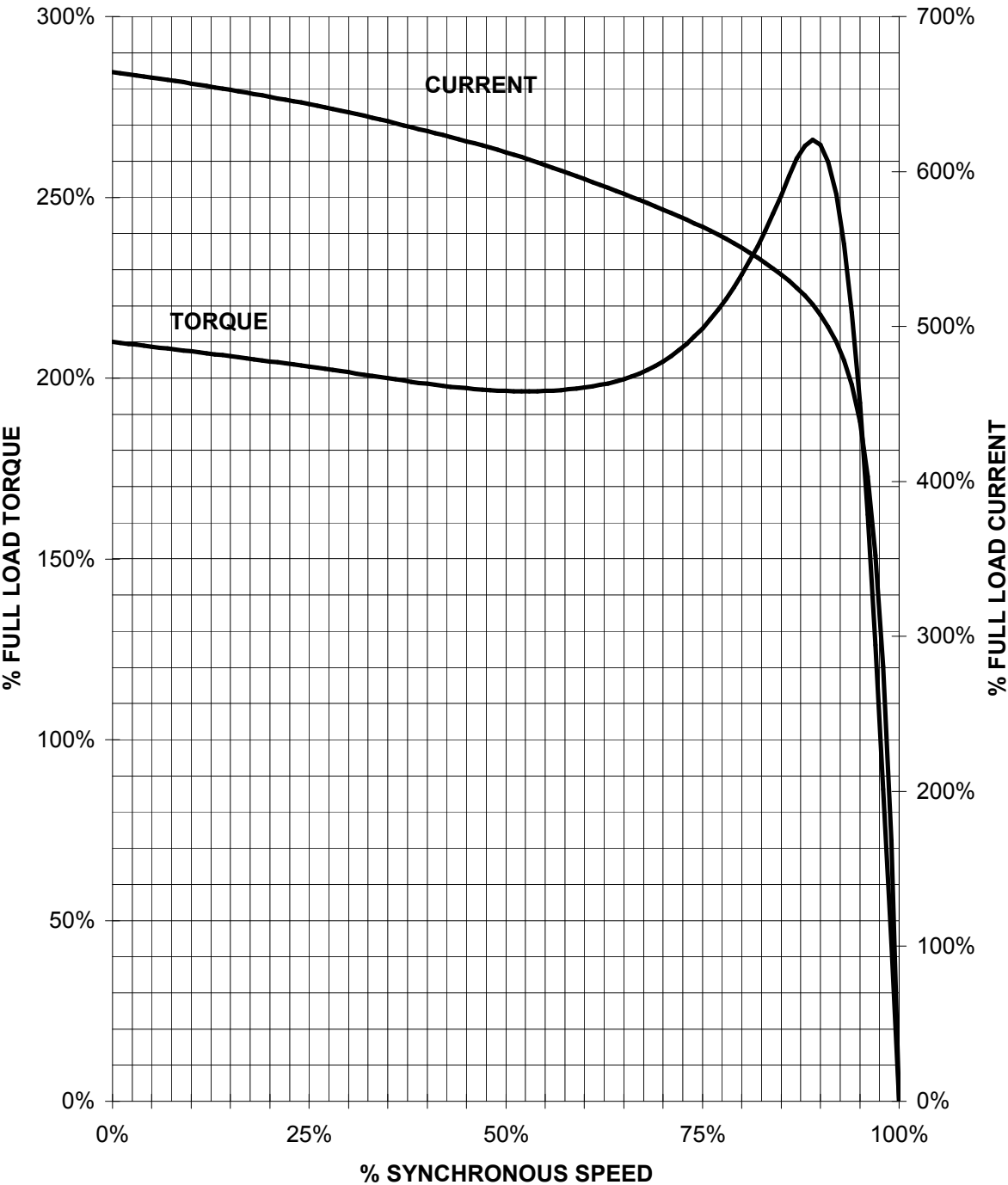
DESIGNER					
Rev		Sd			
IP	BPM	FRAME	TYPE	WATTS	PH
Hz					

Tolerance in mm. according to DIN-1686-GTB-19		Quantity		Parts and Measure		Drawing No. Norm No.		Item No.		Material		Weight Lbs.	
②		04.03.02.01											
to 18		± 4.5											
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 3600 TYPE GP100A
HZ 60 PHASE 3 FRAME 254T NEMA B

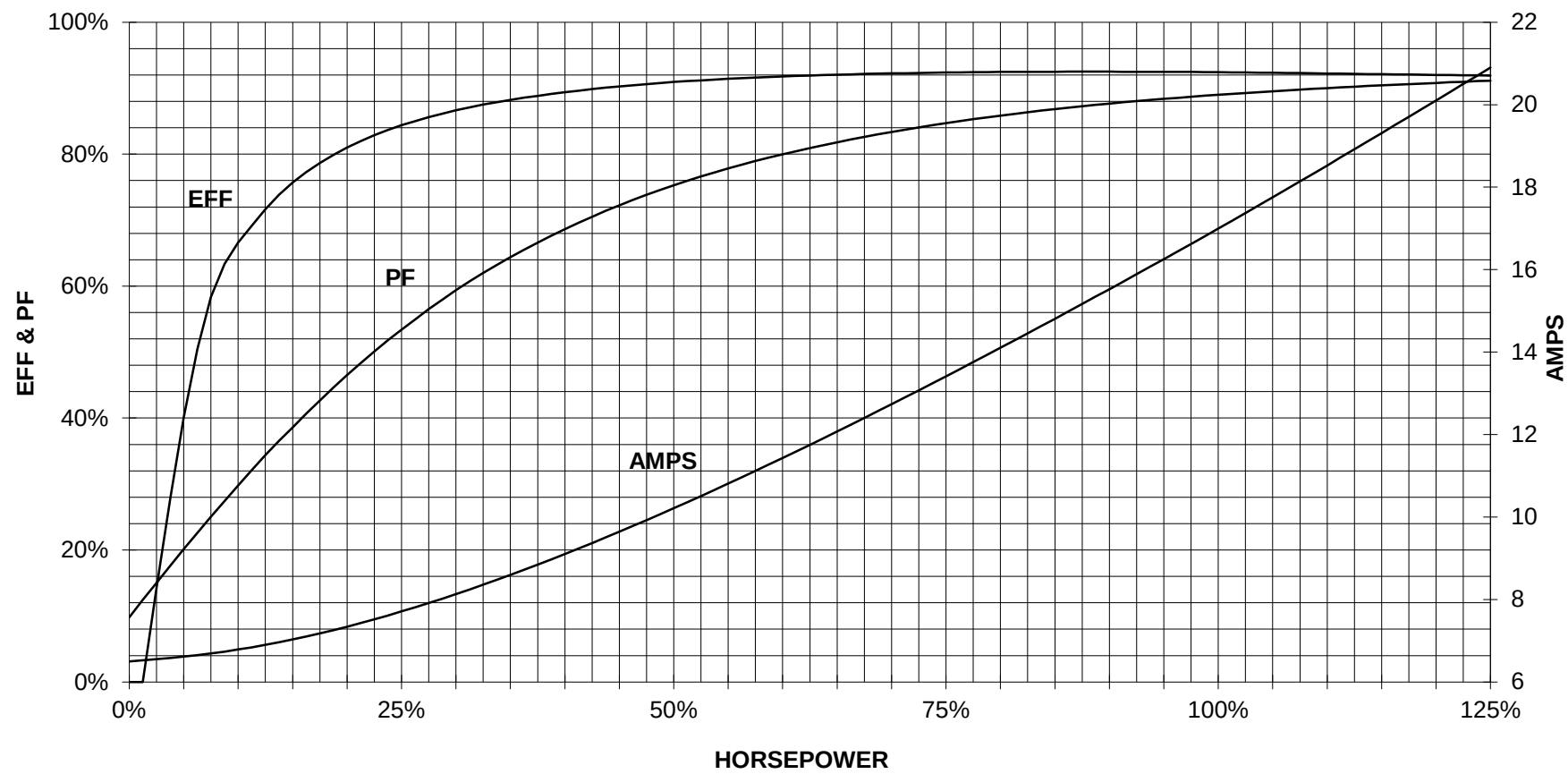
TORQUE & CURRENT VS. SPEED



CUSTOMER: ORDER#:

15 HP 3600 RPM 254 FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100A NP



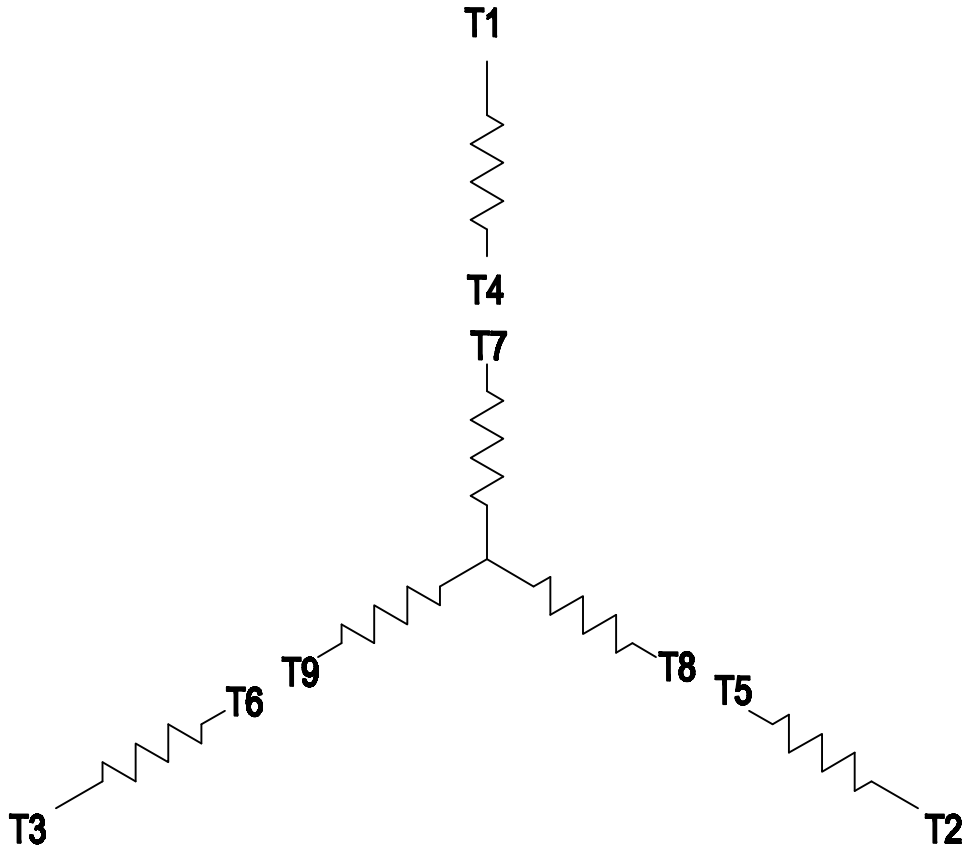
CUSTOMER _____ ORDER # _____ PO # _____

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

REV. 1

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

VOLTS

RPM

HZ

PH

3

Customer

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