



NEMA Motor Data

Ordering data : 1LE2121-2BB21-4EA3

Client order no. : Item no. :
Order no. : Consignment no. :
Offer no. : Project :
Remarks :

Nameplate Data				Mounting and motor protection			
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Type	GP100A - NEMA Premium Efficiency				
HP	20.0	Rating	Cont.		
Voltage	(14) 208-230/460V,	Ins. Class	Class F (Standard)		
Amps	50.0 / 25.0 A	S.F.	1.15		
FL RPM	1770	Amb. Temp.	40 deg C		
FL Efficiency	93.0 %	Temp. Rise	Class B		
FRAME	256TC	kVA Code	H		
DE AFBMA	45BC02JPP30	NEMA Des	B		
ODE AFBMA	45BC02JPP30	Mtr WT	229.06		
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	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		93.1 %	93.4 %	93.0 %	
Power Factor		65.3	75.9	80.5	
Current (A)	10.5 A	15.4 A	19.8 A	50.0 / 25.0	145.0 A
Inverter Duty	VT	20:1	CT	4:1	

Mechanical Data					
SAFE STALL TIME	HOT (s)	15	COLD (s)	33	
Rtr wt (lbs)	81.40	Rtr WK2	2.06		
FLT (lb-ft)	60.000	LRT	185	BDT	240
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

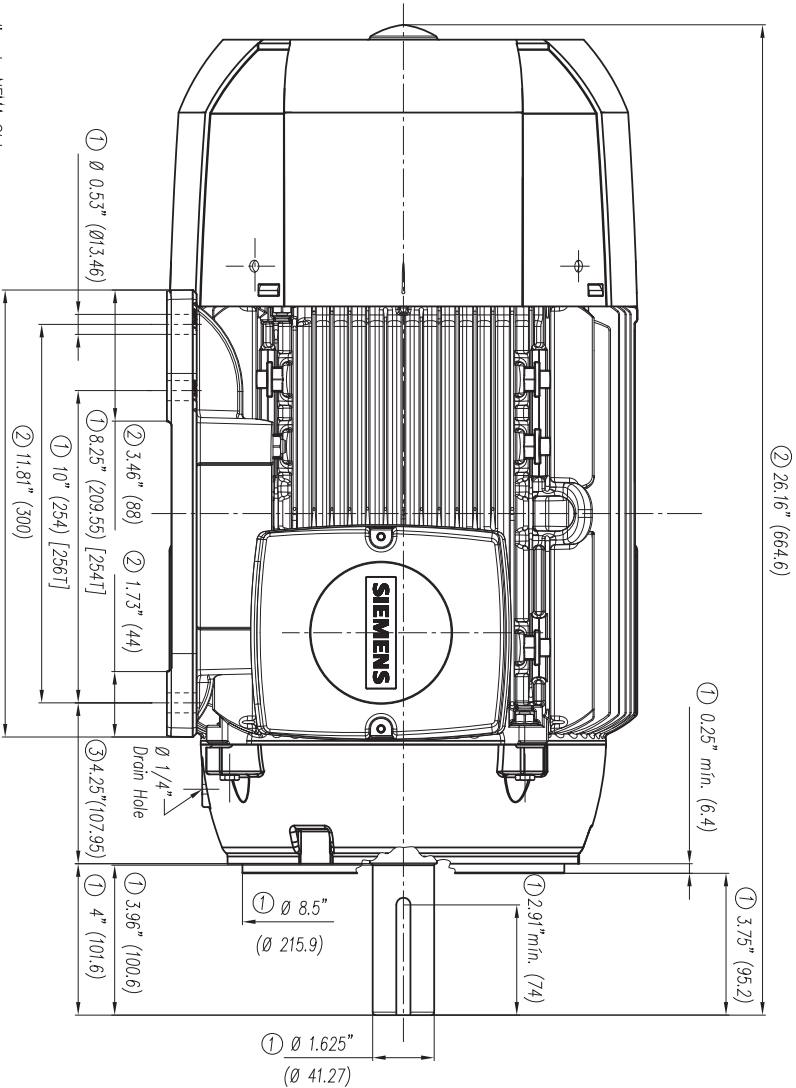
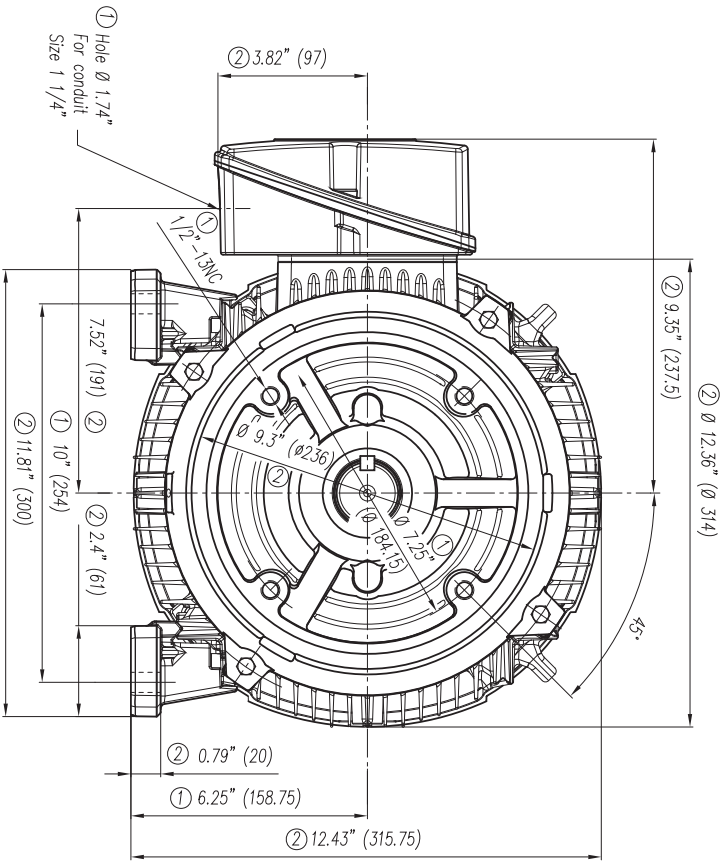
Wiring Connection Information				
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Special design :				
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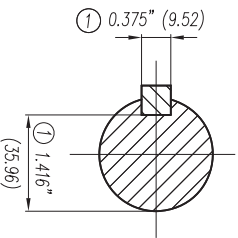
Description	3 PHASE - 9 LEAD - WYE				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Y Y
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

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

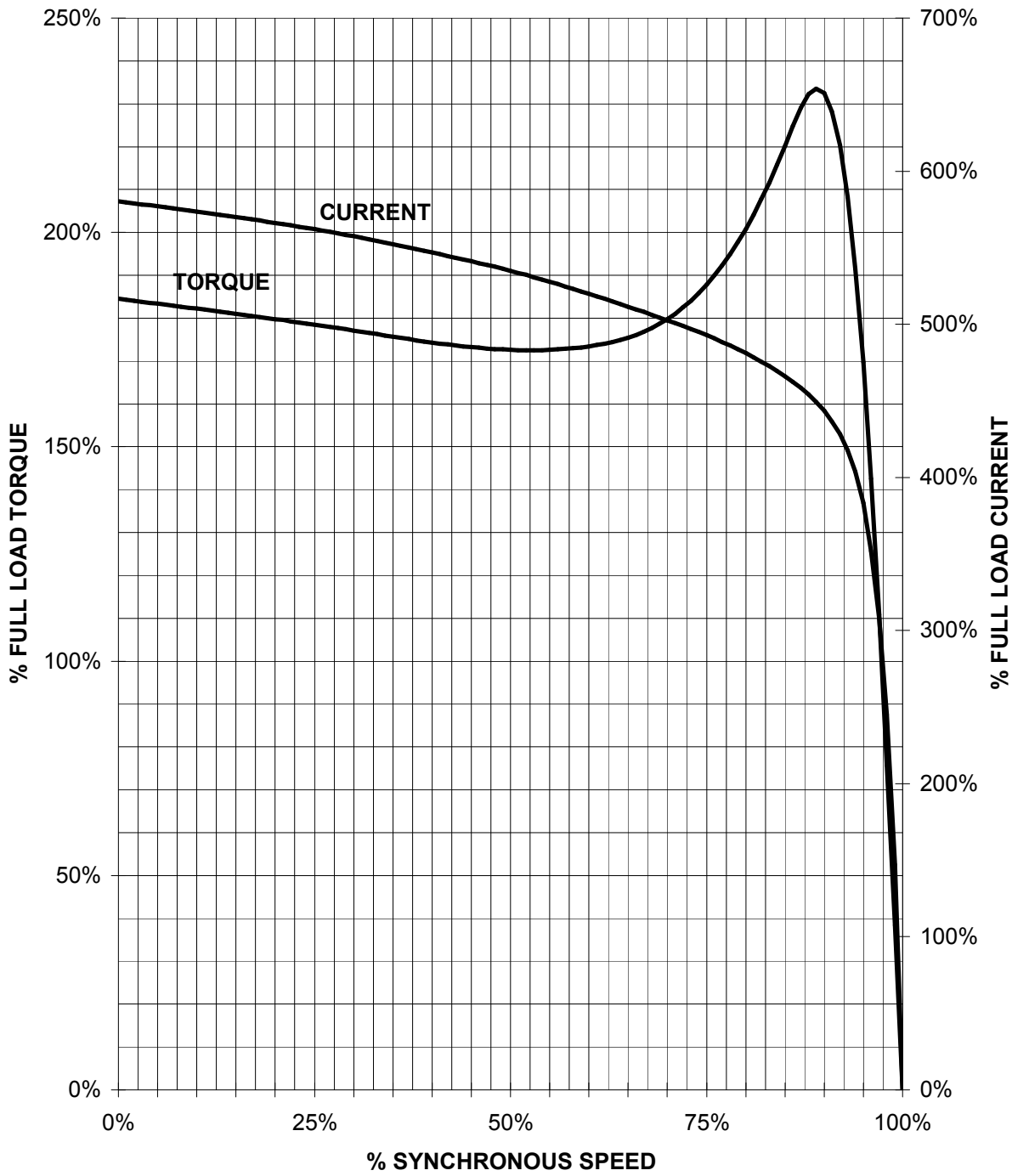
CERTIFIED PRINT					
CUSTOMER					
P#		S#			
IP	BM	NAME	TYPE	VAL'S	PA
					HZ

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									
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 20 VOLTS < 600V RPM 1800 TYPE GP100A
HZ 60 PHASE 3 FRAME 256T NEMA B

TORQUE & CURRENT VS. SPEED

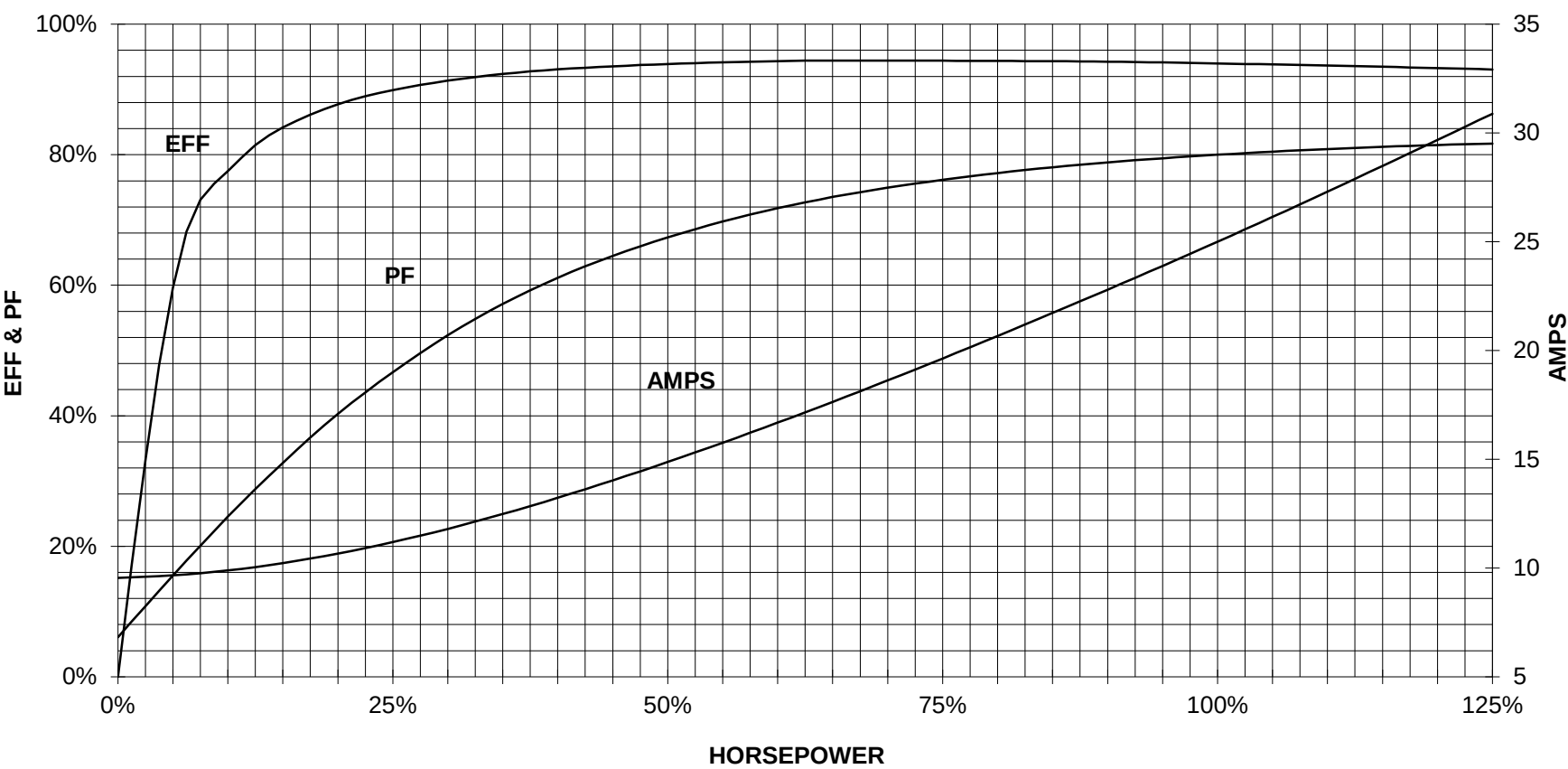


CUSTOMER: _____ ORDER#: _____

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

20 HP 1800 RPM 256 FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100A NP



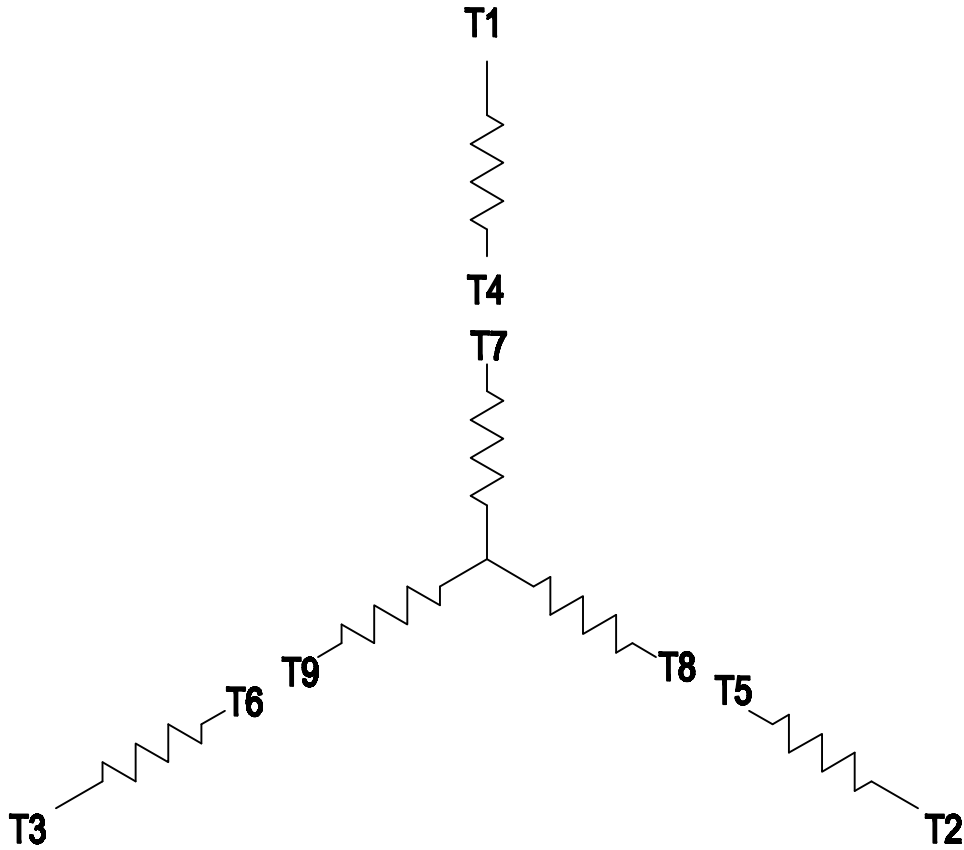
CUSTOMER _____ ORDER # _____ PO # _____

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

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