



NEMA Motor Data

MLFB-Ordering data : 1LE2221-2BB21-4AA3

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

Item no. :
Consignment no. :
Project :

Nameplate Data	Mounting and motor protection
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Type:			
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	256T	kVA Code	H
DE AFBMA	45BC02JPP30	NEMA Des	B
ODE AFBMA	45BC02JPP30	Mtr WT	292.11
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		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)	74.42	Rtr WK2	2.06	
FLT (lb-ft)	60.000	LRT	183	BDT 240
Ext Load Inertia (WK2) Capability	105.0 lb-ft²			

Typical Noise Data									
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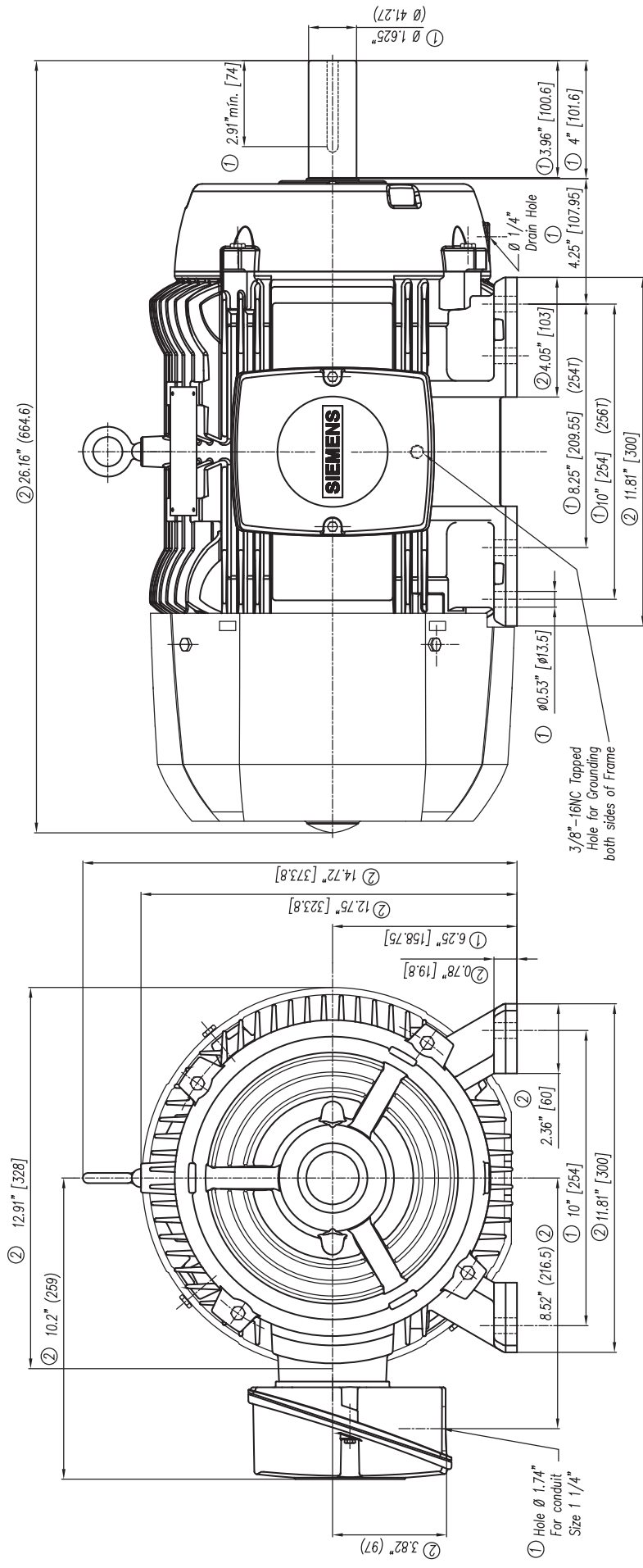
A-weighted Sound	Octave Band Center Frequencies Hertz (Hz)								
Pressure Level	125	250	500	1000	2000	4000	8000	SPL	72
at 3 feet	49	60	67	68	66	63	50	SPwrL	83

Wiring Connection Information	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.

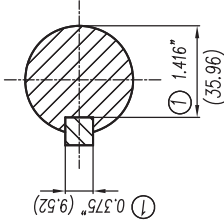
② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.

③ Not According to NEMA Std.
- ① Tolerancias acorde a NEMA Std.

② Todas estas dimensiones correspondientes a ensambles y fundición en bruto tendrán una tolerancia según DIN 1686-GTB-19

③ No Acorde a NEMA Std.

CERTIFIED PRINT / CERTIFICACION					
CUSTOMER CLIENTE					
POWER/USUO COMPANIA		SIGNATURE CLIENTE			
IP	ENV	FRANK/ARM	TYPE/PRO	VOLTS	PHASES
				W/0	Hz



Keyseat detail
Detalle Cuñero

②		European Projection/ Proyección Europea		Modific		a) Se cambió formato a Inglés-Español y se especificó tipos en los que aplica este dibujo. g) Changed the format to English-Spanish and was specified in what kind of motors apply this drawing.	
Dim. in mm. acc. to Tol. en mm. según DIN-1686-GTB-19		Dim. in inches/Dim. en pulg.		Date/Fecha		Name/Nombre	
Over/desde	To/hasta	18	30	05/03/08	05/03/08	Guymón	Guymón
18	30	± 4.5	± 4.7	Drawn/Elab.	Check/Rev.	Type/ Tipo:	Scale/ Escala
30	50	± 5	± 5	120	± 6	GP100	Sin W/0
50	80	± 5.5	± 5.5	180	± 6.5	254/256T Arm.	
80	120	± 6	± 6	250	± 7		
120	180	± 6.5	± 7	315	± 7.5		
180	250	± 7	± 7.5	400	± 8		
250	315	± 8	± 8	500	± 8.5		
315	400	± 8.5	± 9	630	± 9.5		
400	500	± 9	± 10	800	± 10		
500	630	± 9.5					
630	800	± 10					

SIEMENS
GUADALAJARA FACTORY

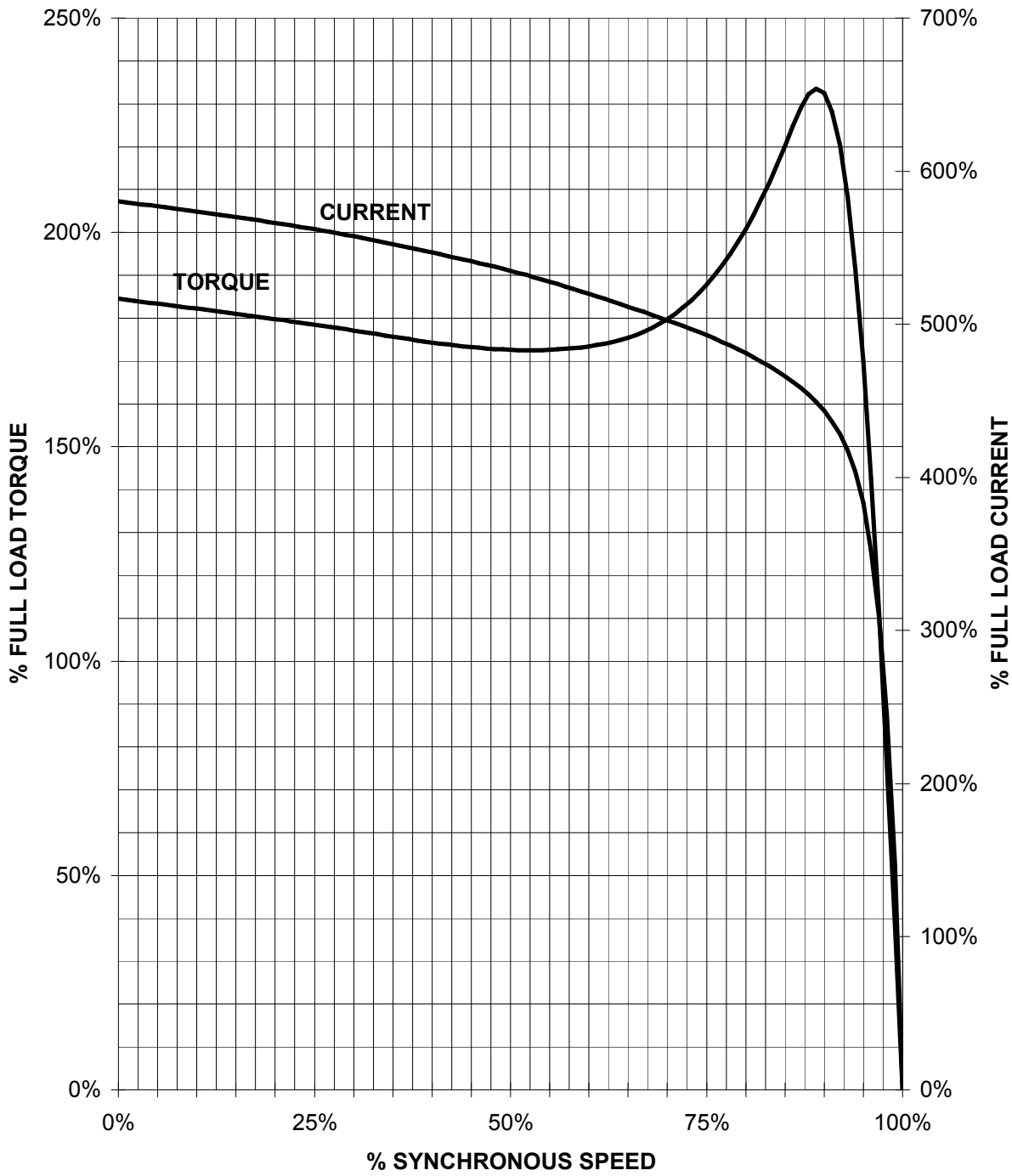
3MSE 223 0850a)

Rep./ 3MSE 223 0850

SIEMENS INDUSTRY, INC.

HP 20 VOLTS < 600V RPM 1800 TYPE GP100
HZ 60 PHASE 3 FRAME 256T NEMA B

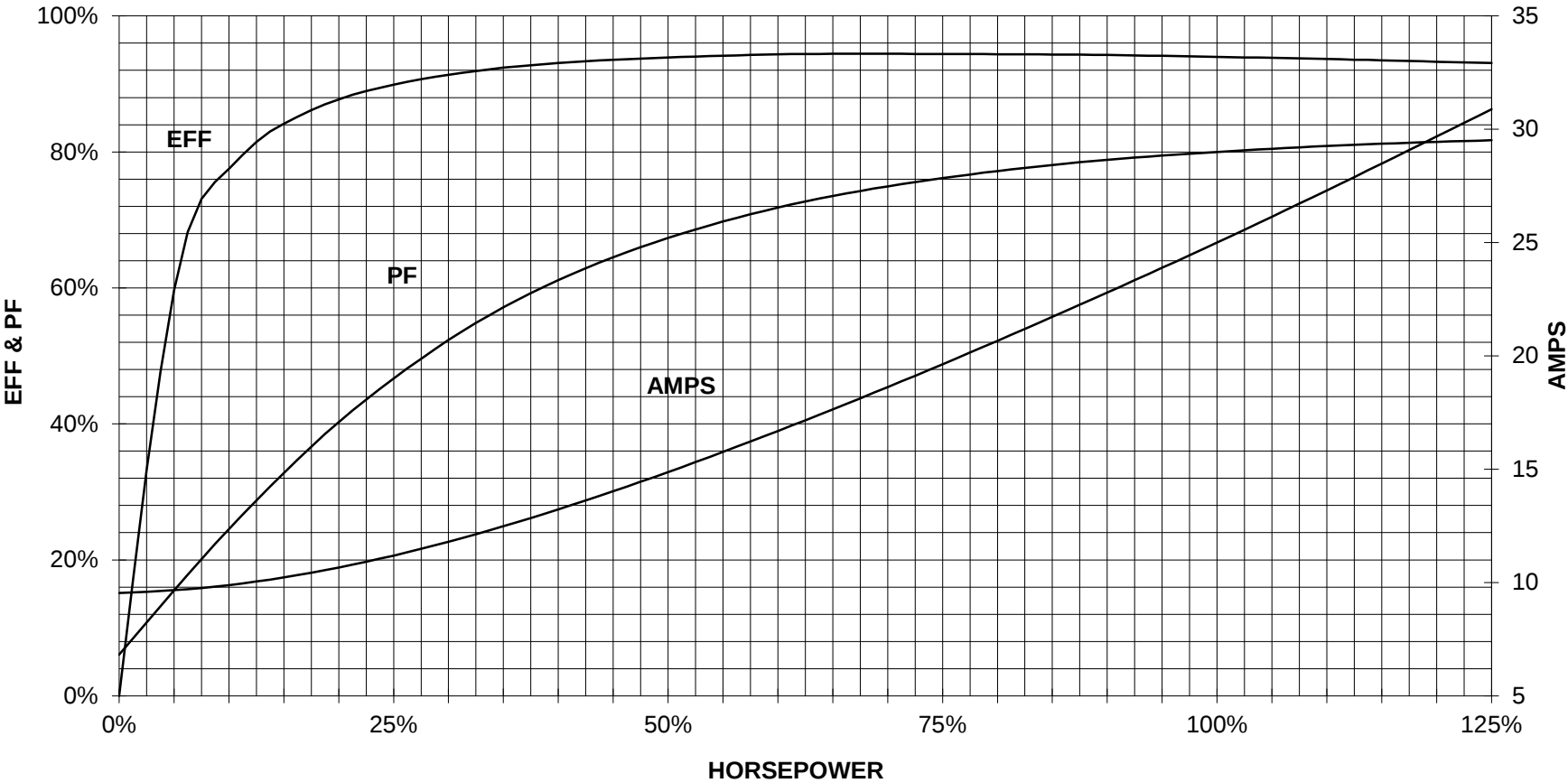
TORQUE & CURRENT VS. SPEED



CUSTOMER: ORDER#:

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

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100

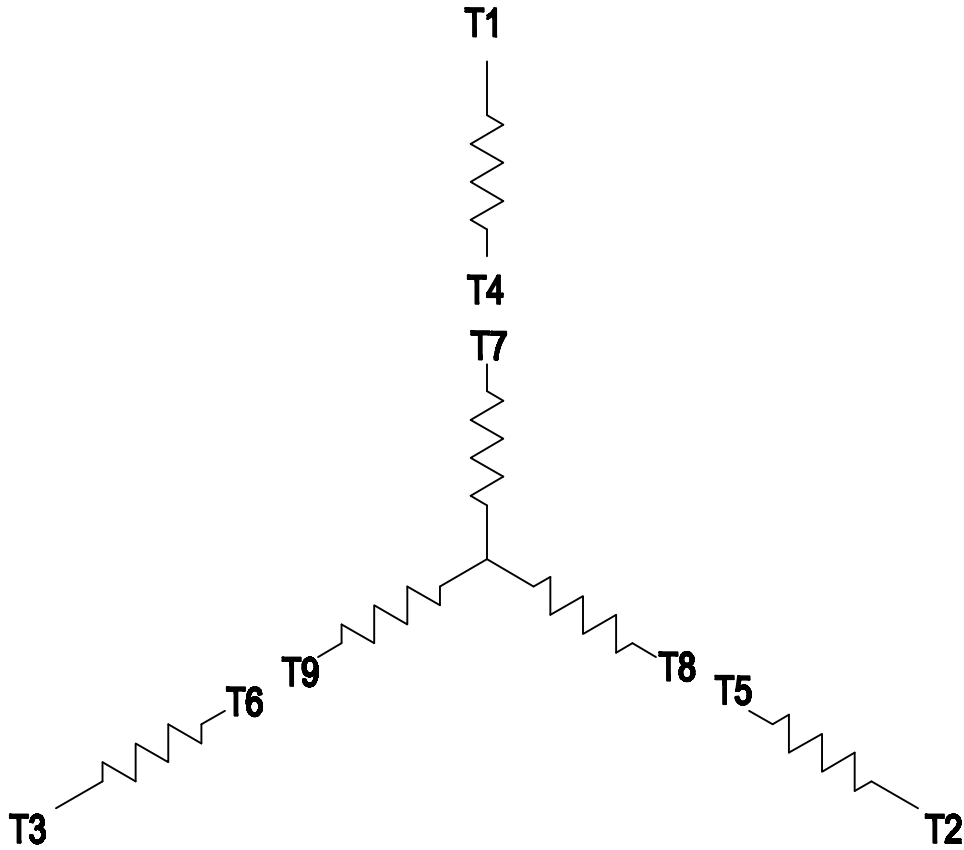


CUSTOMER _____ ORDER # _____ PO # _____

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

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