



NEMA Motor Data

Ordering data : 1LE2221-2BA21-4AA3

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

Item no. :
Consignment no. :
Project :

Nameplate Data	Mounting and motor protection
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Type	GP100 - NEMA Premium Efficiency		
HP	20.0	Rating	Cont.
Voltage	(14) 208-230/460V,	Ins. Class	Class F (Standard)
Amps	45.0 / 22.5 A	S.F.	1.15
FL RPM	3515	Amb. Temp.	40 deg C
FL Efficiency	91.0 %	Temp. Rise	Class B
FRAME	256T	kVA Code	G
DE AFBMA	45BC02JPP30	NEMA Des	B
ODE AFBMA	45BC02JPP30	Mtr WT	292.99
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		92.1 %	91.6 %	91.0 %	
Power Factor		86.2	91.3	91.5	
Current (A)	5.2 A	11.8 A	16.8 A	45.0 / 22.5	145.0 A
Inverter Duty	VT	20:1	CT	4:1	

Mechanical Data				
SAFE STALL TIME	HOT (s)	20	COLD (s)	45
Rtr wt (lbs)	60.92	Rtr WK2	1.35	
FLT (lb-ft)	30.000	LRT	183	BDT 230
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	SPwrL	93

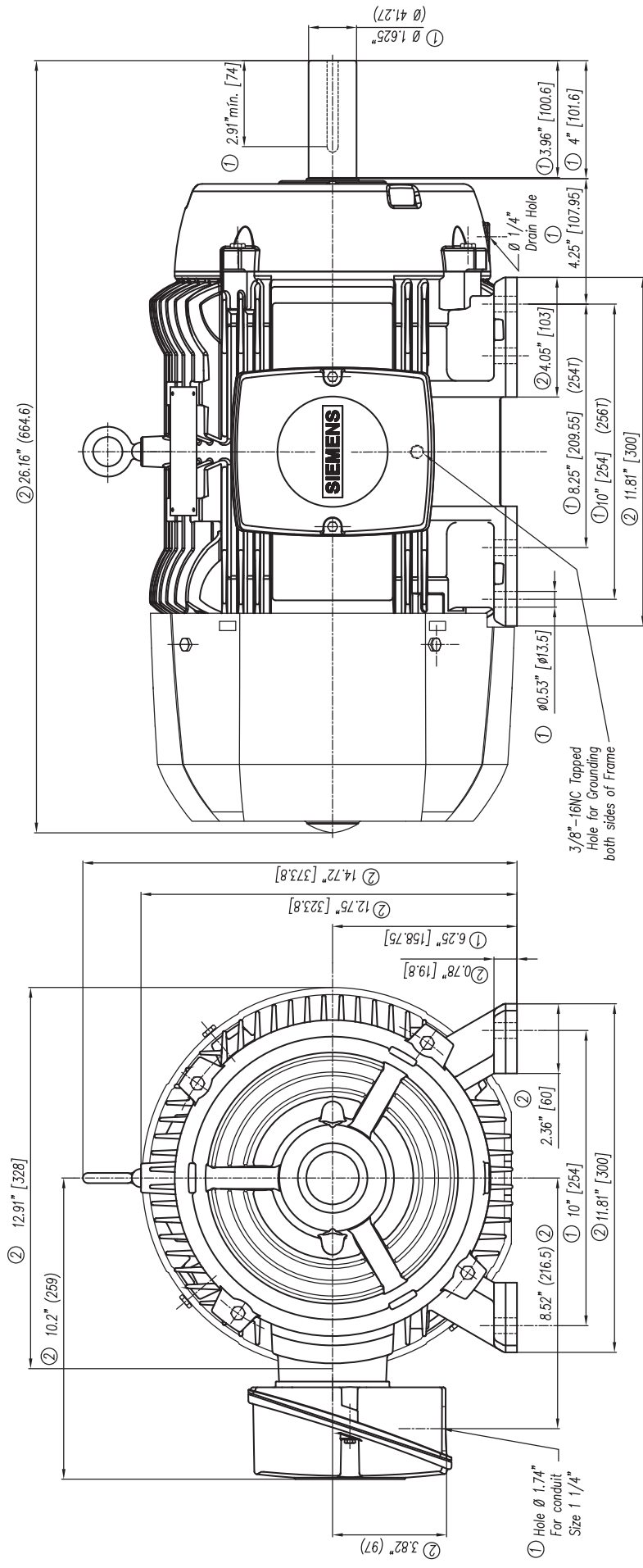
Wiring Connection Information					
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Special design :					
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Description	3 PHASE - 9 LEAD - WYE				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Y Y
HIGH	T1	T2	T3	T4 T7-T5 T8-T6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

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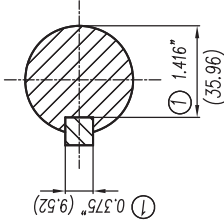
Manufacturer	Mobil Polyrex EM or equal
Type	Polyurea (standard)
DE Capacity (oz.)	0.50
ODEnd Capacity (oz.)	0.50



- 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.
- 3 Not According to NEMA Std.

Tol. in mm. acc. to Tol. en mm. según DIN-1686-GTB-19		European Projection/Proyección Europea		Dim. in inches/Dim. en pulg.	
Over/desde	To/hasta	± 4.5	± 4.5	± 4.5	± 4.5
18	30	± 4.5	± 4.5	± 4.5	± 4.5
30	50	± 5	± 5	± 5	± 5
50	80	± 5.5	± 5.5	± 5.5	± 5.5
80	120	± 6	± 6	± 6	± 6
120	180	± 6.5	± 6.5	± 6.5	± 6.5
180	250	± 7	± 7	± 7	± 7
250	315	± 7.5	± 7.5	± 7.5	± 7.5
315	400	± 8	± 8	± 8	± 8
400	500	± 8.5	± 8.5	± 8.5	± 8.5
500	630	± 9.5	± 9.5	± 9.5	± 9.5
630	800	± 10	± 10	± 10	± 10

CERTIFIED PRINT/CERTIFICACION					
CUSTOMER/CLIENTE					
POWER/COMPANY		SIN/INDUSTRIAL CLIENTE			
IP	ENV	FRANK/ARM	TYPE/ARM	VOLTS	PHASES
				W/0	W/0



Keyseat detail
Detalle Cuñero

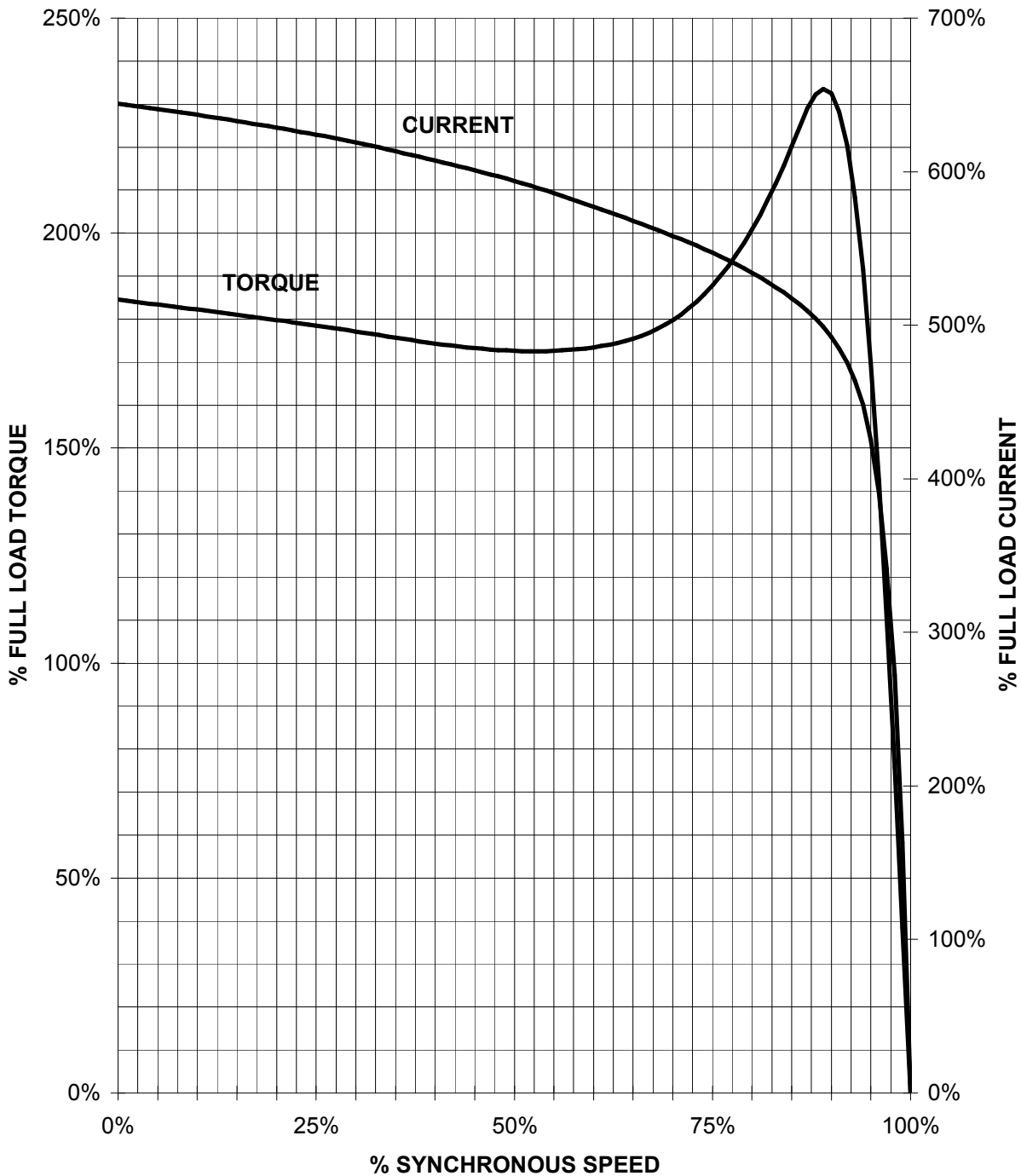
a) Se cambió formato a Inglés-Español y se especificó tipos en los que aplica este dibujo.		b) Changed the format to English-Spanish and was specified in what kind of motors apply this drawing.	
European Projection/Proyección Europea		Dim. in inches/Dim. en pulg.	
Date/Fecha		Name/Nombre	
05/03/08		Guymán	
Drawn/Elab.		Type/ Tipo:	
Check/Rev.		GP100	
Std Ctd./Aut		254/256T Arm.	
Scale/Escala		Type/ Tipo:	
Sin		GP100	
W/0		254/256T Arm.	
Outline/Dimensiones		3MSE 223 0850a)	
New NEMA Motors		Ref.	
Type/ Tipo:		3MSE 223 0850	
Scale/Escala		Rep./ 3MSE 223 0850	
Sin		S00	
W/0		-	

SIEMENS		GUADALAJARA FACTORY	
3MSE 223 0850a)		Ref.	
Type/ Tipo:		3MSE 223 0850	
Scale/Escala		Rep./ 3MSE 223 0850	
Sin		S00	
W/0		-	

SIEMENS INDUSTRY, INC.

HP 20 VOLTS < 600V RPM 3600 TYPE GP100
HZ 60 PHASE 3 FRAME 256T NEMA B

TORQUE & CURRENT VS. SPEED

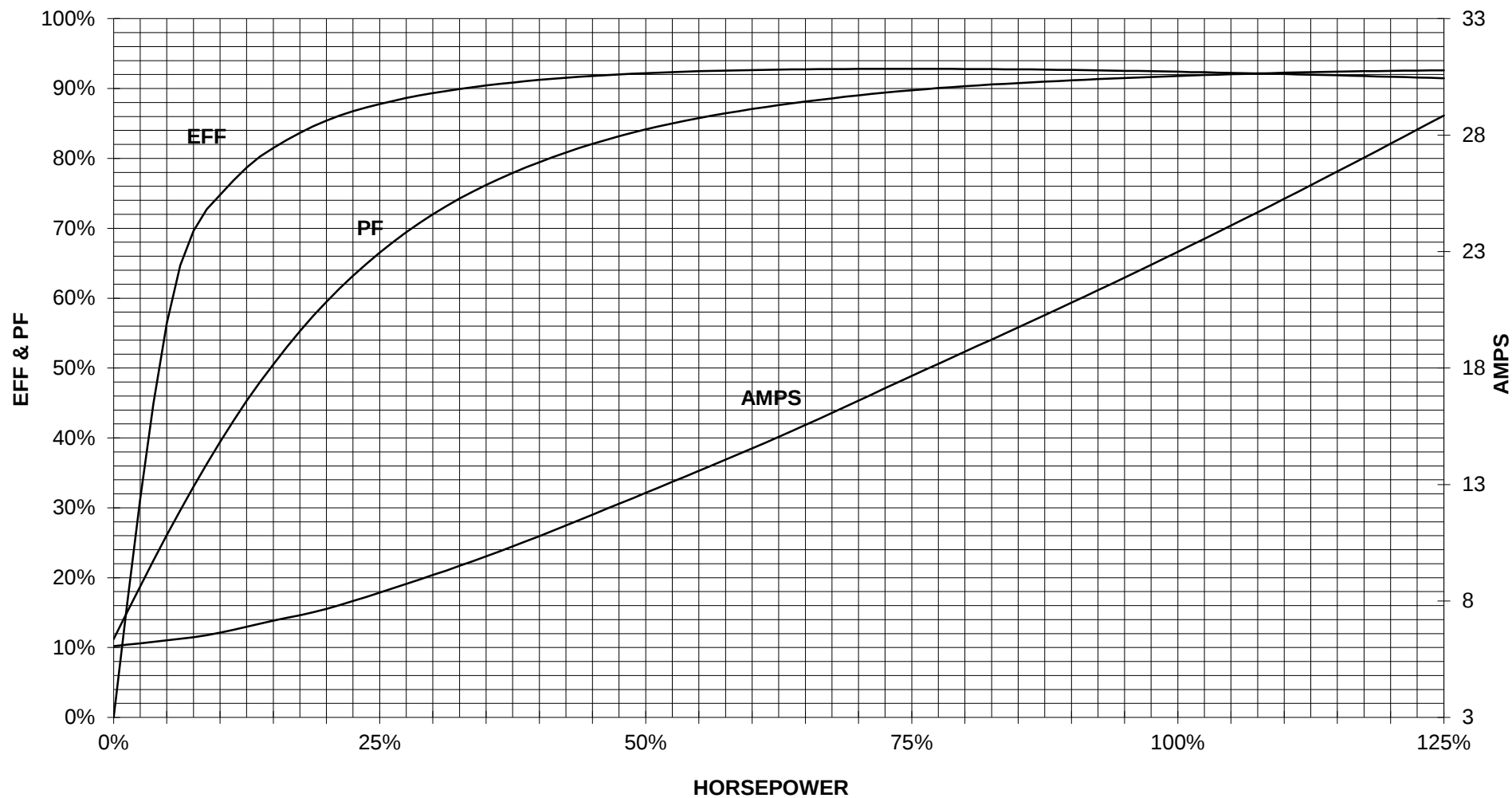


CUSTOMER: ORDER#:

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

20 HP 3600 RPM 256T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100



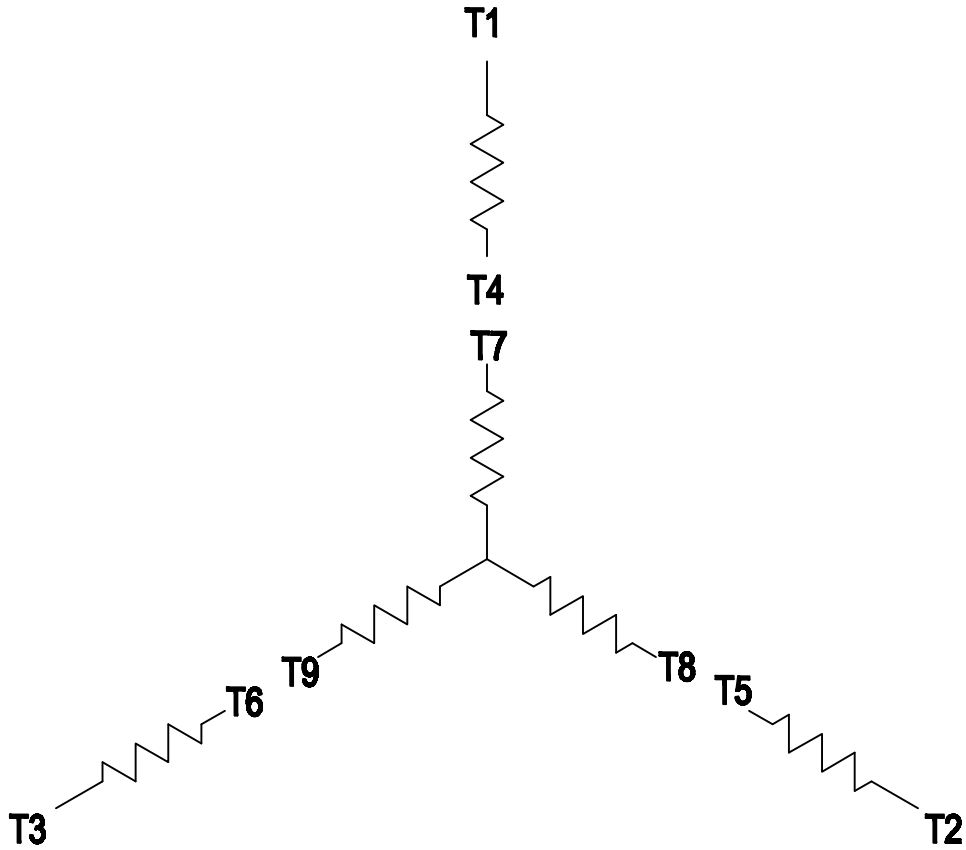
CUSTOMER _____ ORDER # _____ PO # _____

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

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

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