



NEMA Motor Data

Ordering data : 1LE2221-1CA11-4EA3

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

| Nameplate Data | Mounting and motor protection |
|----------------|-------------------------------|
|----------------|-------------------------------|

|               |                                 |            |                    |
|---------------|---------------------------------|------------|--------------------|
| Type          | GP100 - NEMA Premium Efficiency |            |                    |
| HP            | 3.0                             | Rating     | Cont.              |
| Voltage       | (14) 208-230/460V,              | Ins. Class | Class F (Standard) |
| Amps          | 7.6 / 3.8 A                     | S.F.       | 1.15               |
| FL RPM        | 3520                            | Amb. Temp. | 40 deg C           |
| FL Efficiency | 86.5 %                          | Temp. Rise | Class B            |
| FRAME         | 182TC                           | kVA Code   | J                  |
| DE AFBMA      | 30BC02JPP30                     | NEMA Des   | B                  |
| ODE AFBMA     | 30BC02JPP30                     | Mtr WT     | 87.08              |
| 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 | 6206 ZZ C3 S0 | 6206 ZZ C3 S0 |
| Bearing Type | Ball Bearing  | Ball Bearing  |
| AFBMA        | 30BC02JPP30   | 30BC02JPP30   |

| Typical Performance Data |         |        |        |             |        |
|--------------------------|---------|--------|--------|-------------|--------|
| Load                     | No Load | 1/2    | 3/4    | Full Load   | LRC    |
| Efficiency               |         | 84.2 % | 86.3 % | 86.5 %      |        |
| Power Factor             |         | 69.5   | 79.8   | 85.5        |        |
| Current (A)              | 1.7 A   | 2.4 A  | 3.1 A  | 7.6 / 3.8 A | 30.0 A |
| Inverter Duty            | VT      | 20:1   | CT     | 4:1         |        |

| Mechanical Data                   |              |         |          |         |
|-----------------------------------|--------------|---------|----------|---------|
| SAFE STALL TIME                   | HOT (s)      | 20      | COLD (s) | 30      |
| Rtr wt (lbs)                      | 13.81        | Rtr WK2 | 0.13     |         |
| FLT (lb-ft)                       | 4.400        | LRT     | 186      | BDT 386 |
| Ext Load Inertia (WK2) Capability | 105.0 lb-ft² |         |          |         |

| Typical Noise Data |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|--|--|--|--|--|
|--------------------|--|--|--|--|--|--|--|--|--|

|                  |                                           |     |     |      |      |      |      |       |    |
|------------------|-------------------------------------------|-----|-----|------|------|------|------|-------|----|
| A-weighted Sound | Octave Band Center Frequencies Hertz (Hz) |     |     |      |      |      |      |       |    |
| Pressure Level   | 125                                       | 250 | 500 | 1000 | 2000 | 4000 | 8000 | SPL   | 82 |
| at 3 feet        | 41                                        | 58  | 75  | 77   | 77   | 68   | 57   | SPwrL | 88 |

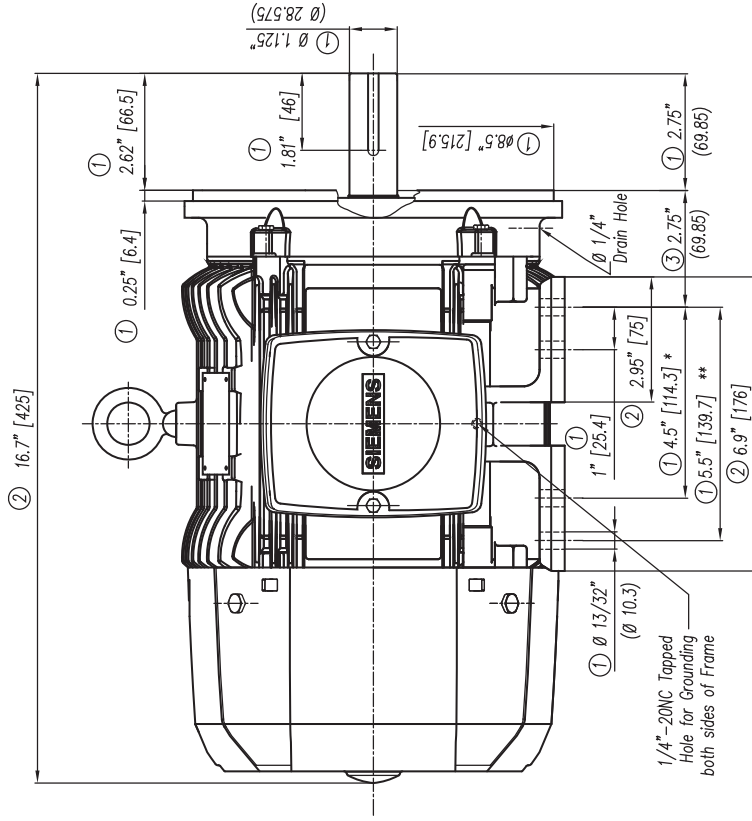
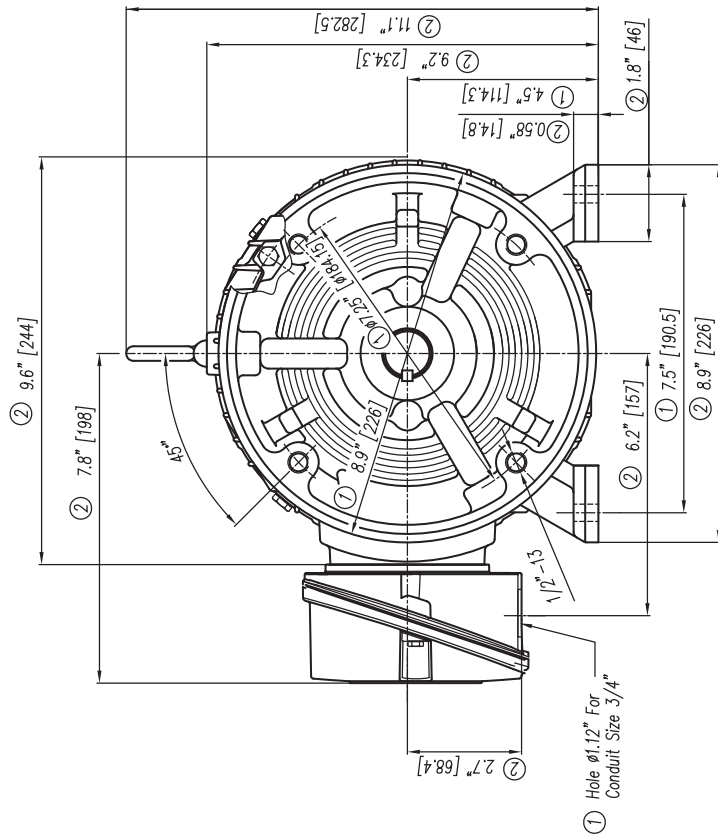
| Wiring Connection Information |  |  |  |  |  |
|-------------------------------|--|--|--|--|--|
|-------------------------------|--|--|--|--|--|

| Special design : |  |  |  |  |  |
|------------------|--|--|--|--|--|
|------------------|--|--|--|--|--|

|             |                        |       |       |                    |     |
|-------------|------------------------|-------|-------|--------------------|-----|
| 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 |  |  |  |  |  |
|-------------------------|--|--|--|--|--|
|-------------------------|--|--|--|--|--|

|                      |                           |
|----------------------|---------------------------|
| Manufacturer         | Mobil Polyrex EM or equal |
| Type                 | Polyurea (standard)       |
| DE Capacity (oz.)    | 0.20                      |
| ODEnd Capacity (oz.) | 0.20                      |



①Tolerances According to NEMA Std.

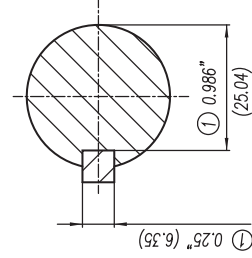
② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GB 19.

③ Not According to NEMA Std.

①Tolerancias acorde a NEMA Std.

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

③ No Acorde a NEMA Std.



### Keyseat detail

### Detalle Cuñero

**CERTIFIED PRINT / CERTIFICACION**

| COSTUMER CLIENTE |     | SUBORDEN CLIENTE A |          | SUBORDEN CLIENTE A |        |
|------------------|-----|--------------------|----------|--------------------|--------|
| IP               | RPM | FRANC/JOEL         | TYPE/POD | MOIS               | PAR/AS |
|                  |     |                    |          |                    | RE     |

|                                                                                     |                                                                                                                                                                                         |                                                                                                                                                                                                     |                                      |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
|  |                                                                                                                                                                                         | a) Se cambió formato a Inglés-Español y se especificó tipos en los que aplica este dibujo.<br>a) Changed the format to English-Spanish and was specified in what kind of motors apply this drawing. |                                      |
| Tol. in mm. acc. to Tol. en mm.<br>según DIN-1686-GTB-19                            |                                                                                                                                                                                         | Modific.                                                                                                                                                                                            |                                      |
| Over/desde to/hasta                                                                 | --- 18 ± 4.5<br>18 30 ± 4.7<br>30 50 ± 5<br>50 80 ± 5.5<br>80 120 ± 6<br>120 180 ± 6.5<br>180 250 ± 7<br>250 315 ± 7.5<br>315 400 ± 8<br>400 500 ± 8.5<br>500 630 ± 9.5<br>630 800 ± 10 | Dim. in inches/Dim. en pulg.                                                                                                                                                                        |                                      |
|                                                                                     |                                                                                                                                                                                         | Date/Fecha<br>29/02/08                                                                                                                                                                              | Name/Nombre<br>Guzmán                |
|                                                                                     |                                                                                                                                                                                         | Drawn/Elab.<br>120 180<br>180 250<br>250 315                                                                                                                                                        | Check./Rev.<br>± 6.5<br>± 7<br>± 7.5 |
|                                                                                     |                                                                                                                                                                                         | Std.Ckt./Aut.<br>315 400<br>400 500<br>500 630<br>630 800                                                                                                                                           | Scale/<br>Escala<br>Sin<br>W/O       |
|                                                                                     |                                                                                                                                                                                         | Outline/Dimensiones<br>New NEMA Motors<br>Type/ Tipo: GP100 182/184TC Frame/Arm.                                                                                                                    |                                      |
|                                                                                     |                                                                                                                                                                                         | 3MSE 221 0851a)                                                                                                                                                                                     |                                      |
|                                                                                     |                                                                                                                                                                                         | Ref.                                                                                                                                                                                                | Rep./ 3MSE 221 0851                  |
|                                                                                     |                                                                                                                                                                                         | SIEMENS<br>GUADALAJARA FACTORY                                                                                                                                                                      |                                      |

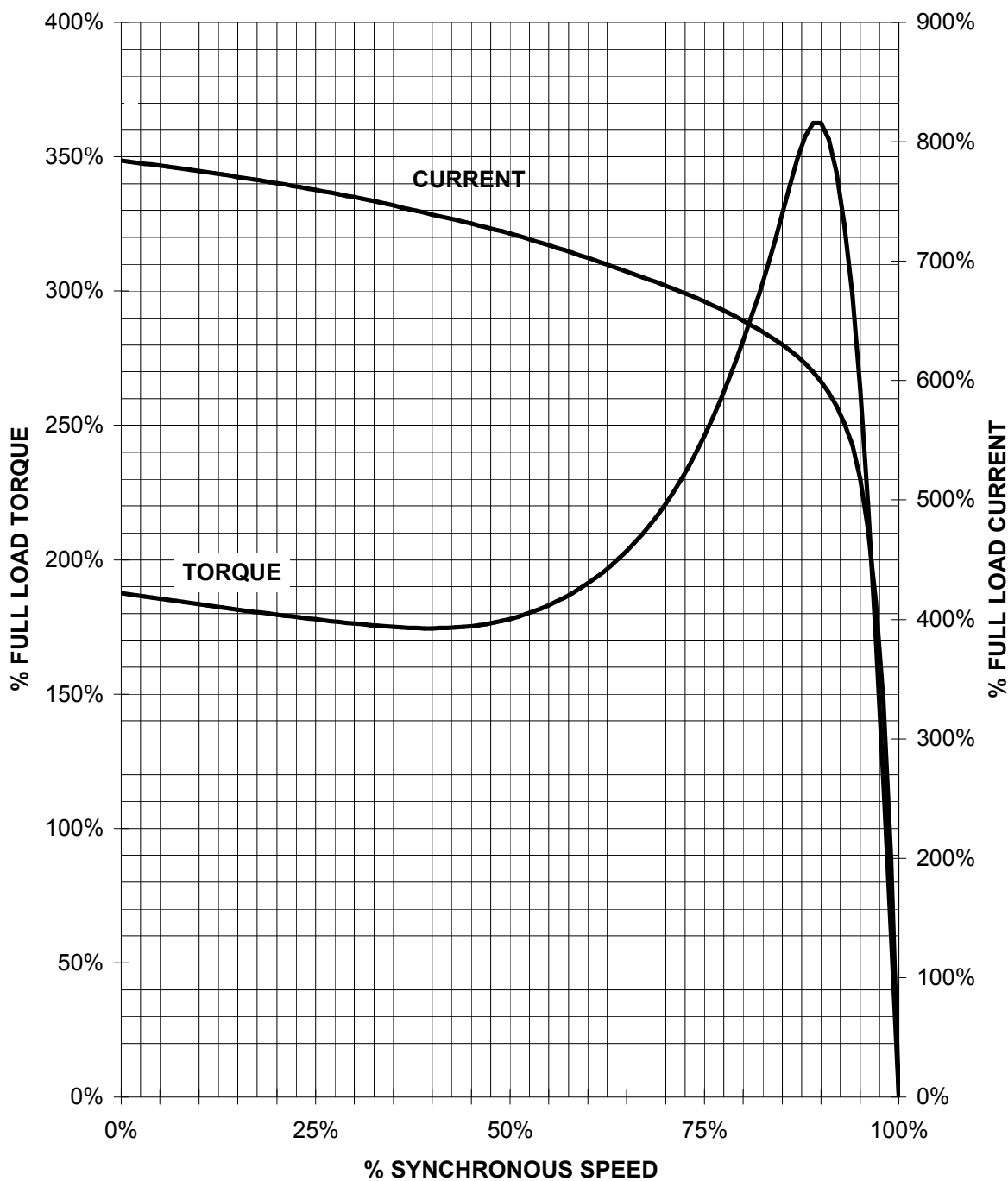
| Outline/Dimensions |                      | Scale/<br>Escala |
|--------------------|----------------------|------------------|
| Type/<br>Tipo:     | New NEMA Motors      | Sin<br>W/O       |
| GP100              | 182/184TC Frame/Arm. |                  |

|                 |                     |
|-----------------|---------------------|
| Ref.            | Rep./ 3MSE 221 0851 |
| 3MSE 221 0851a) |                     |
| - / -           |                     |

SIEMENS INDUSTRY, INC.

HP 3 VOLTS < 600V RPM 3600 TYPE GP100  
HZ 60 PHASE 3 FRAME 182T NEMA B

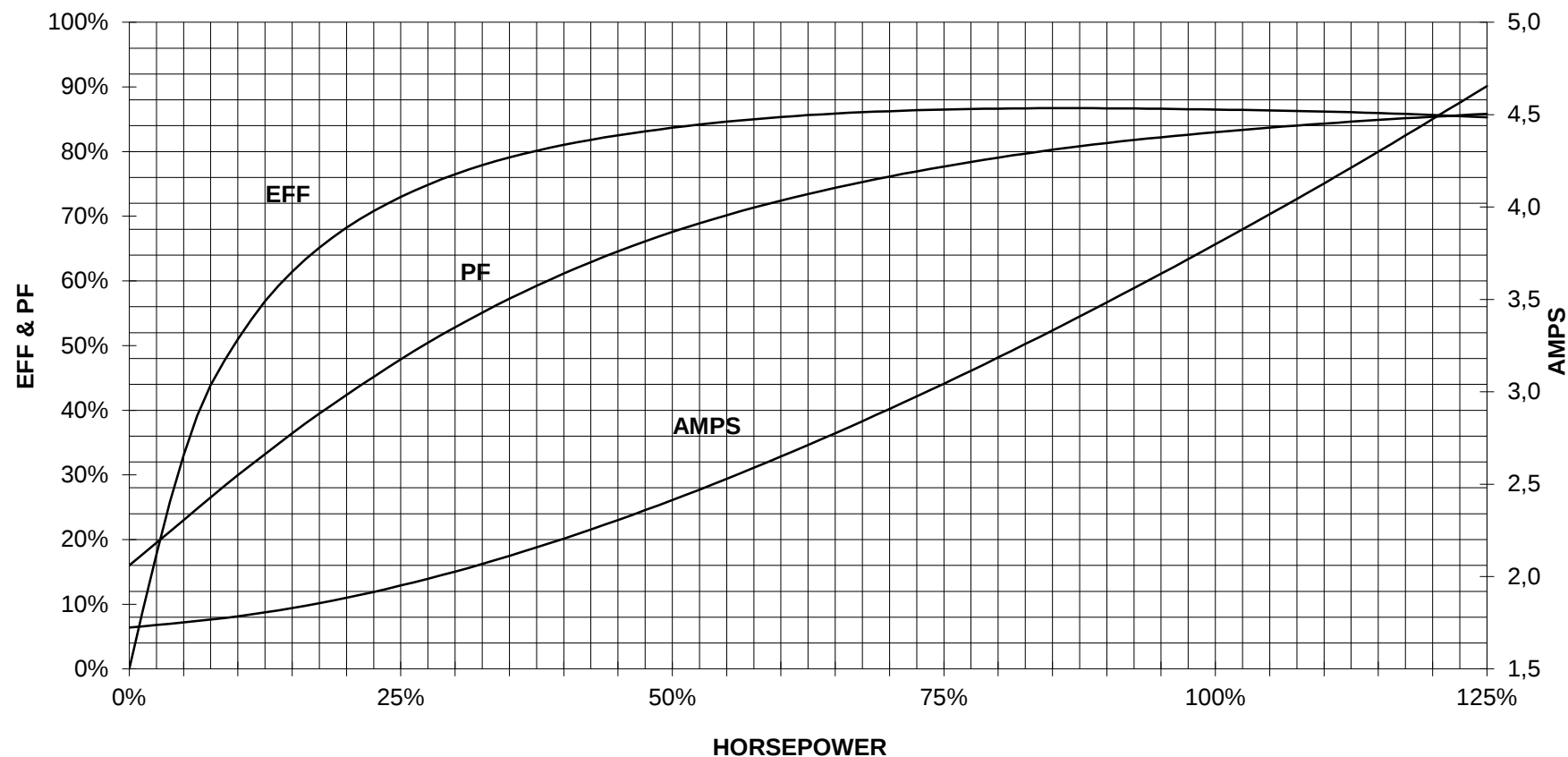
TORQUE & CURRENT VS. SPEED



CUSTOMER: ORDER#:

3 HP    3600 RPM    182T FRAME    460 VOLTS    3 PHASE    NEMA DESIGN B

**SIEMENS INDUSTRY, INC.**  
**PERFORMANCE CURVE**  
**GP100**



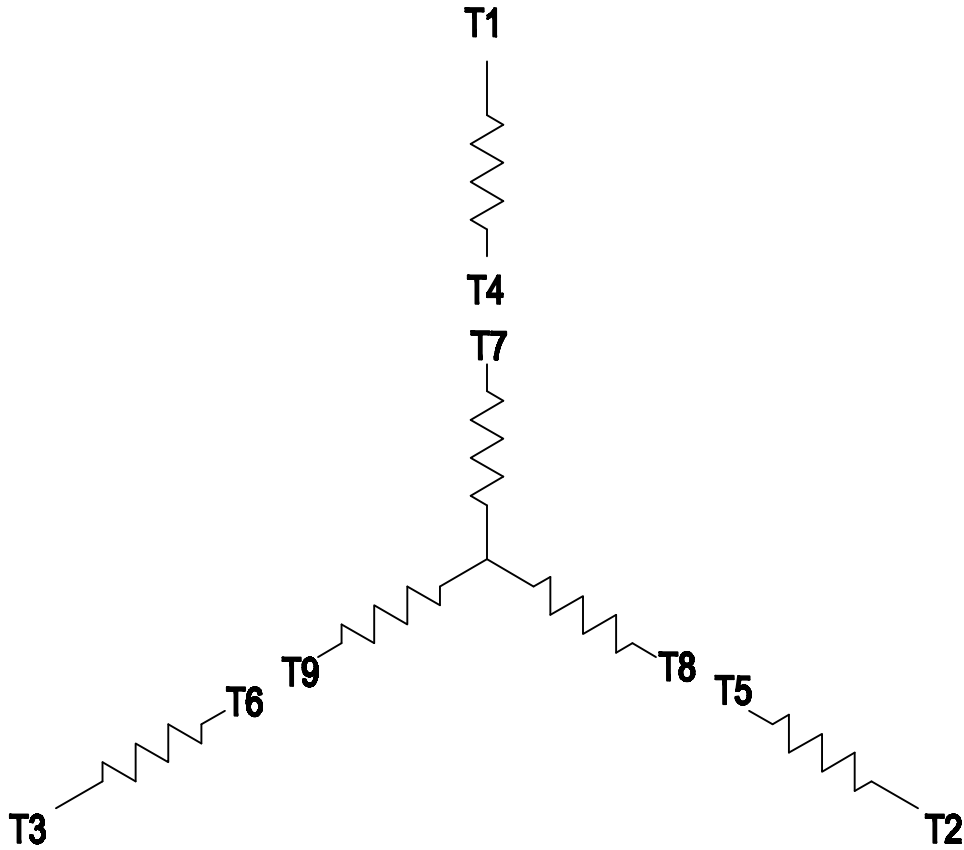
CUSTOMER \_\_\_\_\_ ORDER # \_\_\_\_\_ PO # \_\_\_\_\_

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

REV. 1

### 3 PHASE - 9 LEADS - WYE

| VOLTS | LINES    |          |          | CONNECTED<br>TOGETHER | CONN. |
|-------|----------|----------|----------|-----------------------|-------|
|       | L1       | L2       | L3       |                       |       |
| LOW   | T1<br>T7 | T2<br>T8 | T3<br>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