



NEMA Motor Data

Ordering data : 1LE2221-1AB41-4EA3

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            | 2.0                             | Rating     | Cont.              |    |  |
| Voltage       | (14) 208-230/460V,              | Ins. Class | Class F (Standard) |    |  |
| Amps          | 5.6 / 2.8 A                     | S.F.       | 1.15               |    |  |
| FL RPM        | 1740                            | Amb. Temp. | 40 deg C           |    |  |
| FL Efficiency | 86.5 %                          | Temp. Rise | Class B            |    |  |
| FRAME         | 145TC                           | kVA Code   | L                  |    |  |
| DE AFBMA      | 25BC02JPP30                     | NEMA Des   | B                  |    |  |
| ODE AFBMA     | 25BC02JPP30                     | Mtr WT     | 65.92              |    |  |
| 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 | 6205 ZZ C3 S0 | 6205 ZZ C3 S0 |
| Bearing Type | Ball Bearing  | Ball Bearing  |
| AFBMA        | 25BC02JPP30   | 25BC02JPP30   |

| Typical Performance Data |         |        |        |             |        |
|--------------------------|---------|--------|--------|-------------|--------|
| Load                     | No Load | 1/2    | 3/4    | Full Load   | LRC    |
| Efficiency               |         | 86.0 % | 87.2 % | 86.5 %      |        |
| Power Factor             |         | 57.8   | 70.8   | 77.3        |        |
| Current (A)              | 1.5 A   | 1.9 A  | 2.3 A  | 5.6 / 2.8 A | 24.0 A |
| Inverter Duty            | VT      | 20:1   | CT     | 4:1         |        |

| Mechanical Data                   |       |         |              |          |     |
|-----------------------------------|-------|---------|--------------|----------|-----|
| SAFE STALL TIME                   |       | HOT (s) | 14           | COLD (s) | 22  |
| Rtr wt (lbs)                      | 14.79 | Rtr WK2 | 0.17         |          |     |
| FLT (lb-ft)                       | 6.000 | LRT     | 322          | BDT      | 393 |
| 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   | 55 |
| at 3 feet        | 28                                        | 45  | 47  | 52   | 49   | 43   | 35   | SPwrL | 64 |

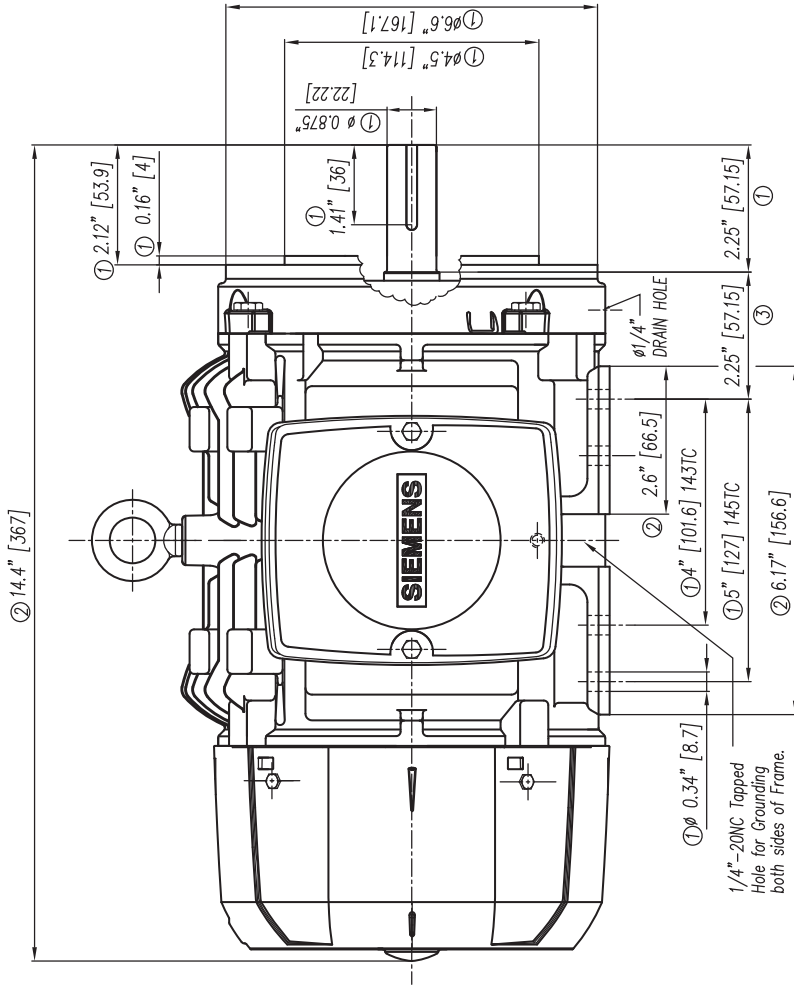
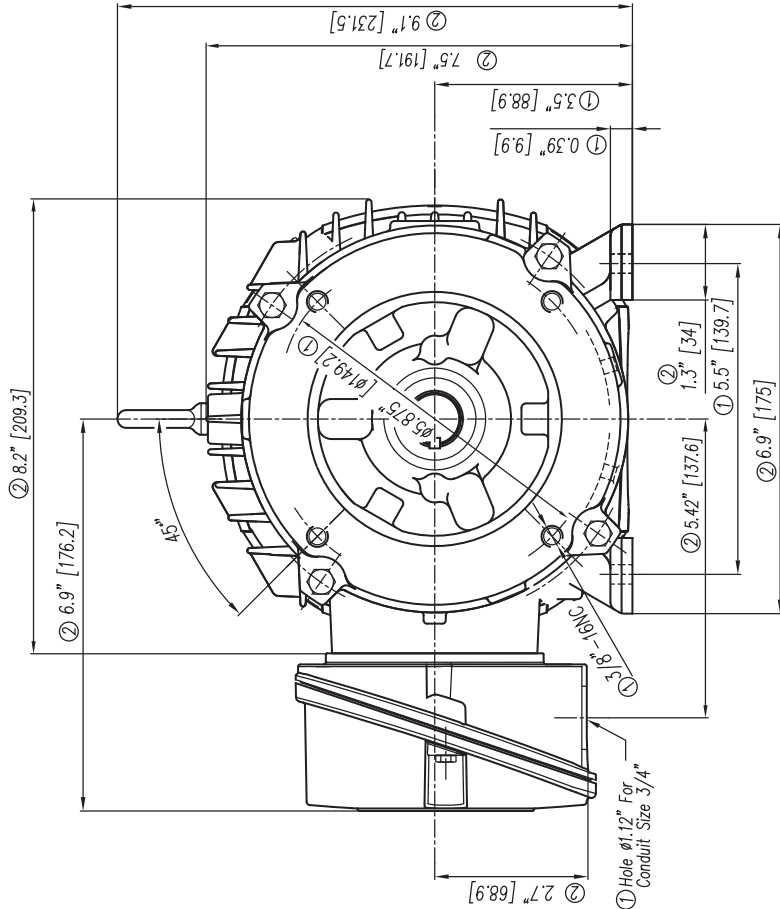
| Wiring Connection Information |  |  |  |  |  |
|-------------------------------|--|--|--|--|--|
|-------------------------------|--|--|--|--|--|

| 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   |

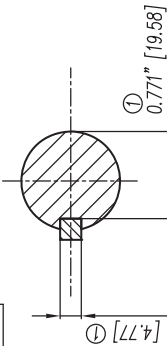
| Lubrication Information |  |
|-------------------------|--|
|-------------------------|--|

|                      |                           |
|----------------------|---------------------------|
| Manufacturer         | Mobil Polyrex EM or equal |
| Type                 | Polyurea (standard)       |
| DE Capacity (oz.)    | 0.30                      |
| ODEnd Capacity (oz.) | 0.30                      |



- ① Tolerancias 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.



Keyseat detail  
Detalle Cuñero

| CERTIFIED PRINT/CERTIFICACION |                |         |         |
|-------------------------------|----------------|---------|---------|
| CUSTOMER/CIENTE               |                |         |         |
| PROYECT/COMPRA                | SUPLEN/CLIENTE |         |         |
| IP                            | PMV            | PMV/PMV | PMV/PMV |

|                                                       |  |            |  |          |  |
|-------------------------------------------------------|--|------------|--|----------|--|
| Tol. in mm. acc. to Tol. en mm. según DIN-1686-GTB-19 |  | Over/desde |  | To/hasta |  |
| ---                                                   |  | 18         |  | ± 4.5    |  |
| 18                                                    |  | 30         |  | ± 4.7    |  |
| 30                                                    |  | 50         |  | ± 5      |  |
| 50                                                    |  | 80         |  | ± 5.5    |  |
| 80                                                    |  | 120        |  | ± 6      |  |
| 120                                                   |  | 180        |  | ± 6.5    |  |
| 180                                                   |  | 250        |  | ± 7      |  |
| 250                                                   |  | 315        |  | ± 7.5    |  |
| 315                                                   |  | 400        |  | ± 8      |  |
| 400                                                   |  | 500        |  | ± 8.5    |  |
| 500                                                   |  | 630        |  | ± 9.5    |  |
| 630                                                   |  | 800        |  | ± 10     |  |

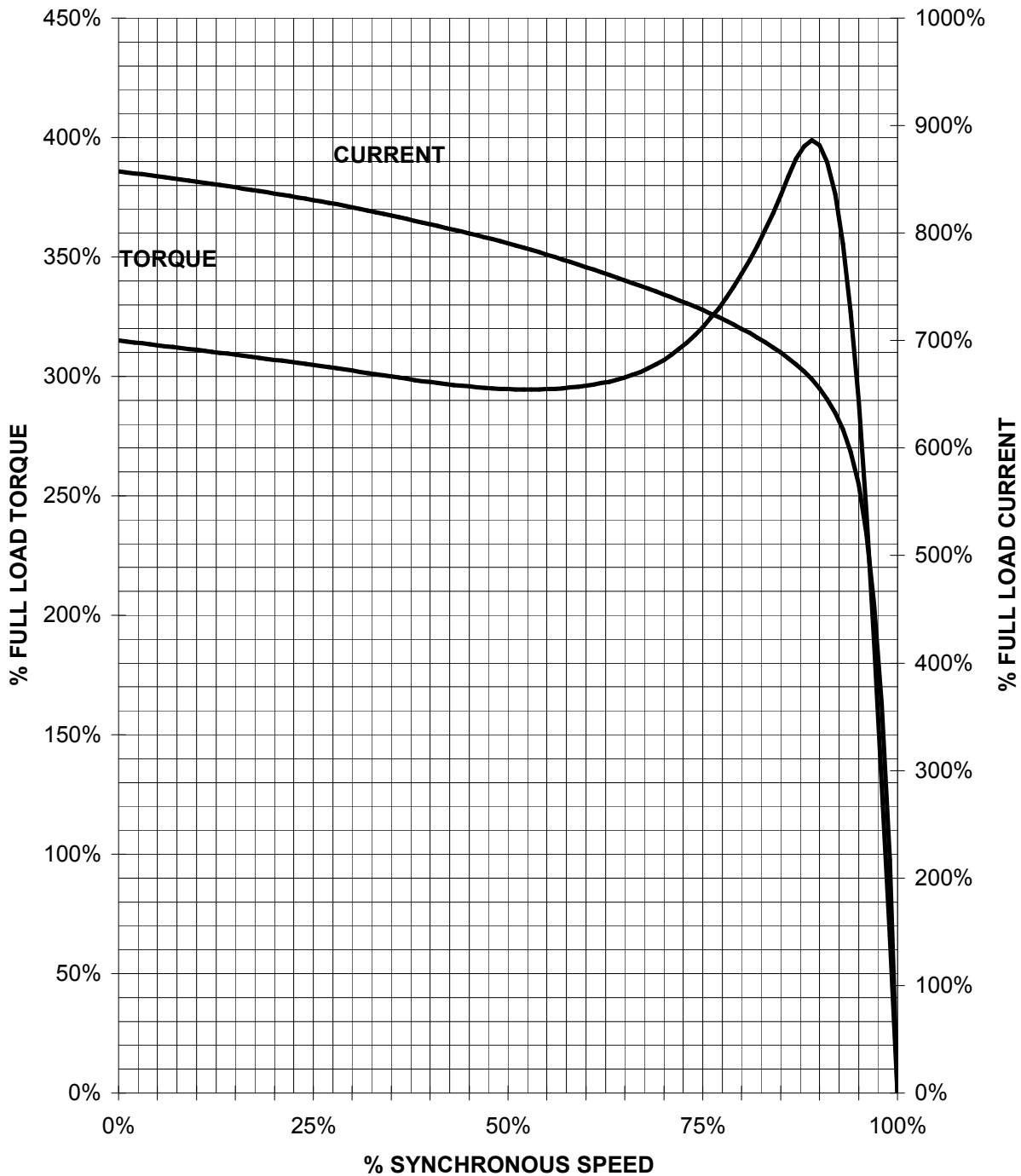
|                                        |  |                              |  |
|----------------------------------------|--|------------------------------|--|
| European Projection/Proyeccion Europea |  | Dim. in inches/Dim. en pulg. |  |
| No. of Project                         |  | Name/Nombre                  |  |
| Date/Fecha                             |  | 28/02/08                     |  |
| Drawn/Elab.                            |  | Guzmán                       |  |
| Check/Rev.                             |  |                              |  |
| Std. Ctd./Aut.                         |  |                              |  |

|                     |  |                         |  |
|---------------------|--|-------------------------|--|
| Outline/Dimensiones |  | New NEMA Motors         |  |
| Type/ Tipo          |  | GP100 143/145TC Armazón |  |
| SIEMENS             |  | GUADALAJARA FACTORY     |  |
| 3MSE 220 0851a)     |  | Rep./ 3MSE 220 0851     |  |
| -                   |  | -                       |  |

SIEMENS INDUSTRY, INC.

HP 2 VOLTS < 600V RPM 1800 TYPE GP100  
HZ 60 PHASE 3 FRAME 145T NEMA B

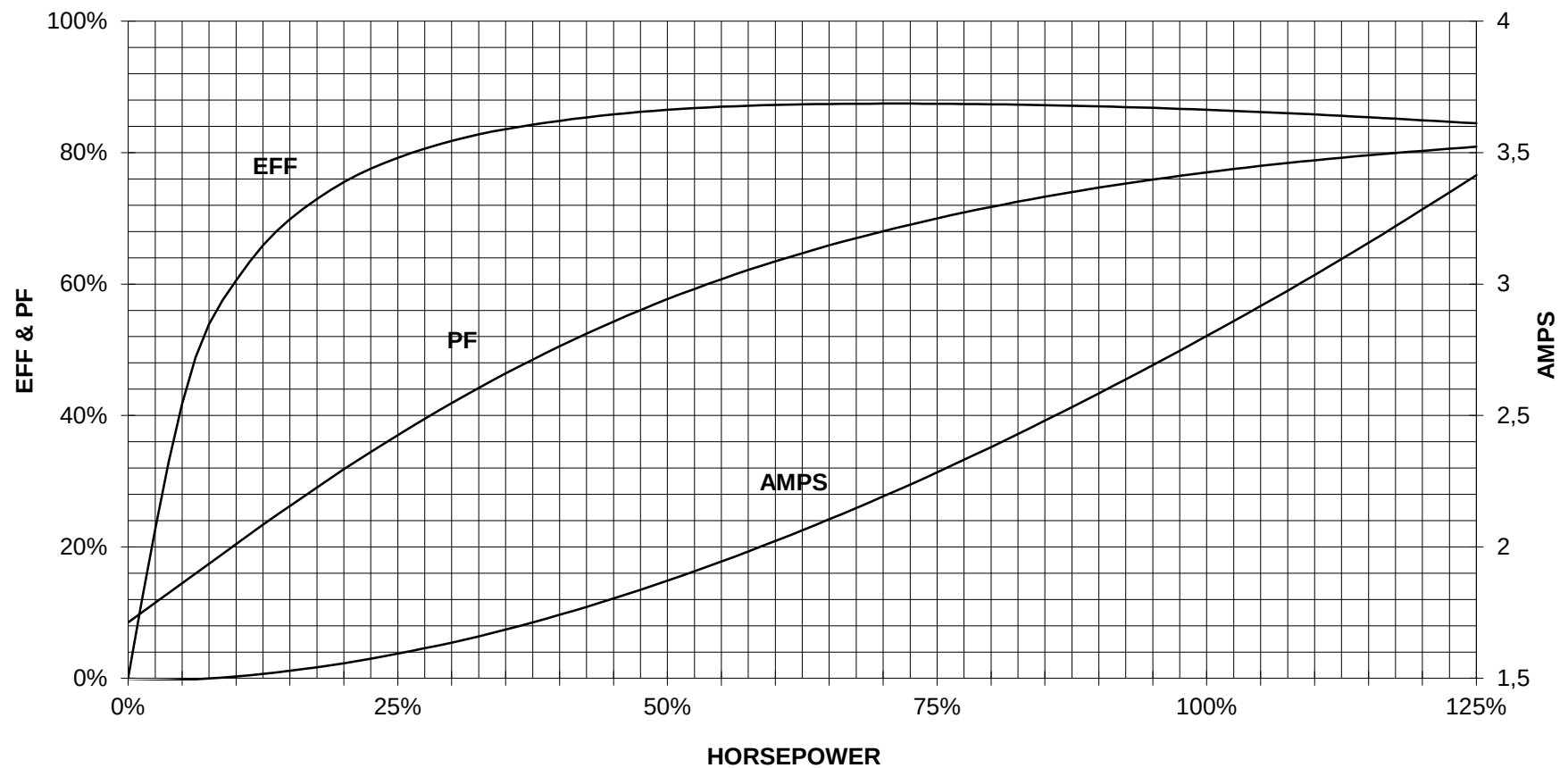
TORQUE & CURRENT VS. SPEED



CUSTOMER: \_\_\_\_\_ ORDER#: \_\_\_\_\_

2 HP    1800 RPM    145T FRAME    460 VOLTS    3 PHASE    NEMA DESIGN B

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



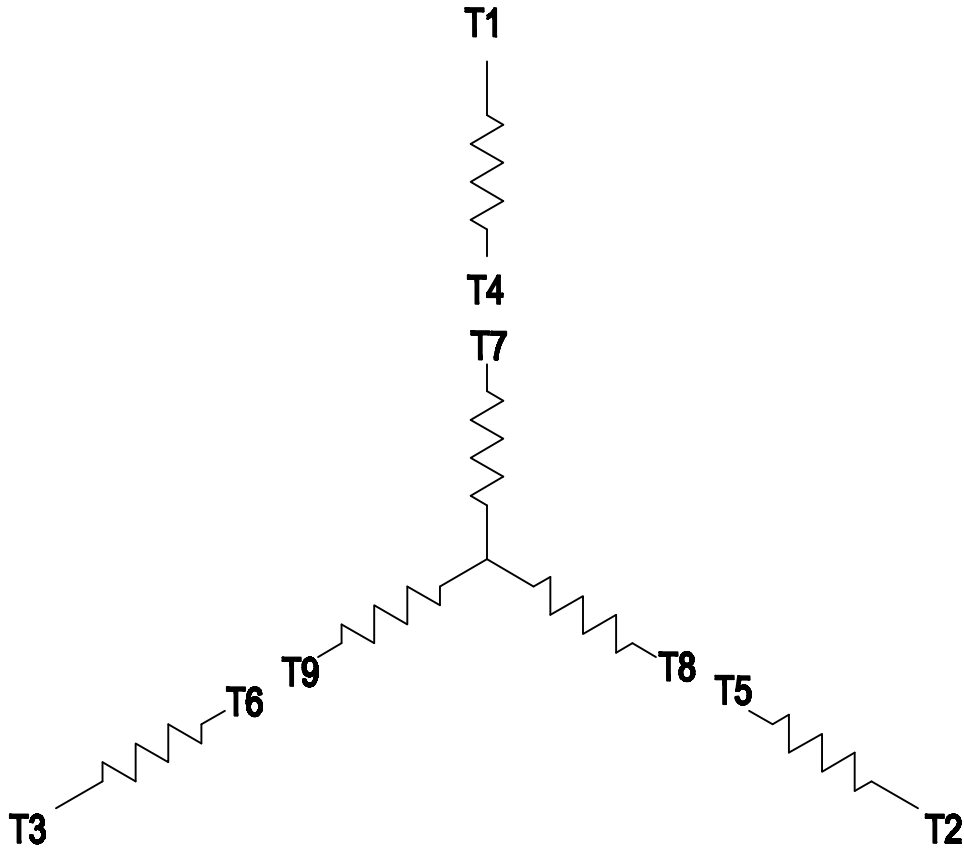
CUSTOMER \_\_\_\_\_ ORDER # \_\_\_\_\_ PO # \_\_\_\_\_

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