

DATE  
DEC. 16, 2010  
CAT. #: NP0754G

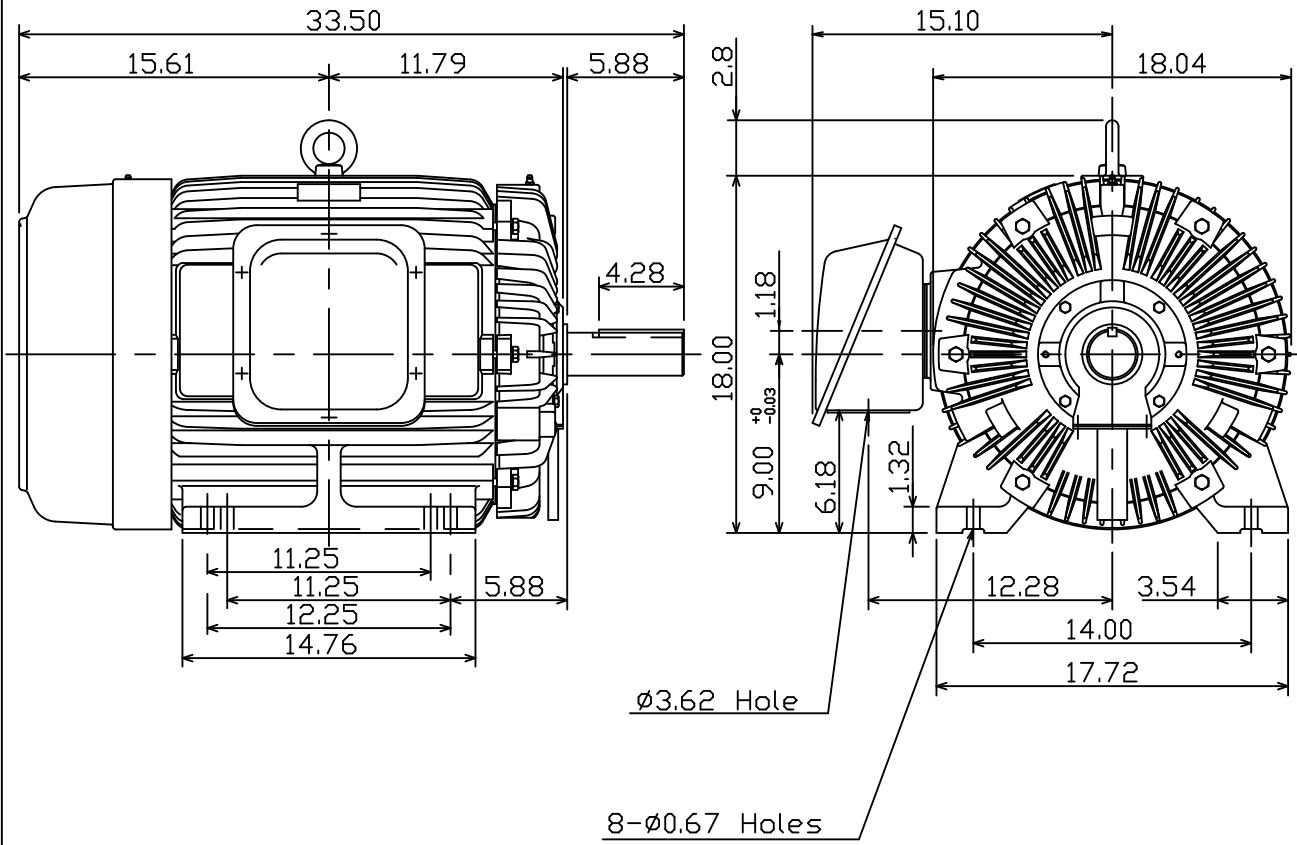
OUTLINE DIMENSIONS  
3-PHASE INDUCTION MOTOR

MOTOR TYPE:  
AEHH8P-SGR  
FRAME NO. 365T

|      |    |    |    |         |                         |
|------|----|----|----|---------|-------------------------|
| Pole | HP | kW | Hz | VOLT    | Syn.Speed<br>r/min(rpm) |
| 4    | 75 | 56 | 60 | 230/460 | 1800                    |

|     |        |              |               |          |           |
|-----|--------|--------------|---------------|----------|-----------|
| Ins | Rating | Dimension in | Approx Weight | Bearings |           |
| F   | CONT.  | inch         | 874 lbs.      | DE: 6313 | NDE: 6213 |

Totally Enclosed Fan-Cooled Type. Squirrel-Cage Rotor.



1. Shaft Grounding Ring Installed



|       |          |          |
|-------|----------|----------|
| DWN.  | K.L.KUD  | 12 06 10 |
| CHKD. | K.L.KUD  | 12 07 10 |
| APPD. | M.C.TSAI | 12 07 10 |



DWG NO.  
31049J361530

# TECO Westinghouse

|                            |   |                            |
|----------------------------|---|----------------------------|
| ISSUED<br><b>8/29/2014</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>TEFC</b>   |
| TYPE<br><b>AEHH8P-SGR</b>  |   | CATALOG#<br><b>NP0754G</b> |

### NAMEPLATE INFORMATION

| OUTPUT    |             | POLE     | FRAME SIZE  | VOLTAGE        | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|-----------|-------------|----------|-------------|----------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP        | KW          |          |             |                |           |               |            |             |              |                |
| <b>75</b> | <b>56.0</b> | <b>4</b> | <b>365T</b> | <b>230/460</b> | <b>60</b> | <b>40°C</b>   | <b>F</b>   | <b>B</b>    | <b>CONT.</b> | <b>1.15</b>    |

### VARIABLE FREQUENCY DRIVE SERVICE

|                 |                 |                |                    |  |               |               |               |                |
|-----------------|-----------------|----------------|--------------------|--|---------------|---------------|---------------|----------------|
| VARIABLE TORQUE |                 |                |                    | OHMS/PHASE EQUIVALENT WYE CIRCUIT<br>(AT RATED OPERATING TEMPERATURE 25°C) |               |               |               |                |
| HZ              | HP              | RPM            | TORQUE (lb-ft)     | R1   | R2            | X1            | X2            | X <sub>m</sub> |
| <b>3~60</b>     | <b>0.009~75</b> | <b>90~1800</b> | <b>0.525~221.8</b> | <b>0.0296</b>  | <b>0.0666</b> | <b>0.2316</b> | <b>0.4277</b> | <b>10.003</b>  |

| CONSTANT TORQUE |               |                 |                | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|---------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP            | RPM             | TORQUE (lb-ft) | HZ                  | HP        | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>7.5~75</b> | <b>180~1800</b> | <b>221.8</b>   | <b>60~90</b>        | <b>75</b> | <b>1800~2700</b> | <b>221.8~147.9</b> |

### TYPICAL PERFORMANCE

| FULL LOAD RPM | EFFICIENCY  |             |             |            | POWER FACTOR |             |             | SOUND PRESSURE LEVEL @ 3 FT Db(A) |
|---------------|-------------|-------------|-------------|------------|--------------|-------------|-------------|-----------------------------------|
|               | FULL LOAD   |             | 3/4 LOAD %  | 1/2 LOAD % | FULL LOAD %  | 3/4 LOAD %  | 1/2 LOAD %  |                                   |
|               | MIN.%       | NOM.%       |             |            |              |             |             |                                   |
| <b>1775</b>   | <b>94.5</b> | <b>95.4</b> | <b>95.4</b> | <b>95</b>  | <b>86.5</b>  | <b>83.5</b> | <b>75.5</b> | <b>79</b>                         |

| CURRENTS     |              |             |               |               |              |              |               |             | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS |           |
|--------------|--------------|-------------|---------------|---------------|--------------|--------------|---------------|-------------|----------------------|----------------------------|-----------|
| NO LOAD      |              |             | FULL LOAD     |               |              | LOCKED ROTOR |               |             |                      | COLD                       | HOT       |
| AT 208 VOLT  | AT 230 VOLT  | AT 460 VOLT | AT 208 VOLT   | AT 230 VOLT   | AT 460 VOLT  | AT 208 VOLT  | AT 230 VOLT   | AT 460 VOLT |                      |                            |           |
| <b>41.10</b> | <b>52.00</b> | <b>26</b>   | <b>188.20</b> | <b>170.20</b> | <b>85.10</b> | <b>982.1</b> | <b>1086.0</b> | <b>543</b>  | <b>G</b>             | <b>17</b>                  | <b>12</b> |

| TORQUE            |                   |              |                 | INERTIA                                     |   |   | ACCEL TIME (DOL)              |                                   | ALLOWABLE STARTS PER HOUR |          |
|-------------------|-------------------|--------------|-----------------|---|---|---|-------------------------------|-----------------------------------|---------------------------|----------|
| FULL LOAD (lb-ft) | LOCKED ROTOR %FLT | PULL UP %FLT | BREAK DOWN %FLT | ROTOR WR <sup>2</sup> (lb-ft <sup>2</sup> ) | NEMA LOAD WK <sup>2</sup> (lb-ft <sup>2</sup> ) | MAX ALLOWABLE WK <sup>2</sup> (lb-ft <sup>2</sup> ) | NEMA LOAD WK <sup>2</sup> Sec | MAX ALLOWABLE WK <sup>2</sup> Sec | COLD                      | HOT      |
| <b>221.90</b>     | <b>200</b>        | <b>165</b>   | <b>250</b>      | <b>14.674</b>                               | <b>338</b>                                      | <b>618</b>  | <b>4.40</b>                   | <b>7.89</b>                       | <b>2</b>                  | <b>1</b> |

|           |                  |             |                     |           |          |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057NP0754G</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|---------------------|-----------|----------|

DATE:  
December 6, 2010

# CONNECTION DIAGRAM

CATALOG NO.:  
NP0754G



**SCHEMATIC - Δ / Y CONNECTION**

## ACROSS THE LINE CONNECTION



**LINE**  
**230 VOLT CONNECTION**



**LINE**  
**460 VOLT CONNECTION**

**\*CONTACT TWMC IF YOU HAVE ANY QUESTIONS  
REGARDING THE MOTOR CONNECTION.**

**PH: 1-800-873-8326**