

DATE  
JAN. 15, 2015

CAT. #: NP0204G

# OUTLINE DIMENSIONS

## 3-PHASE INDUCTION MOTOR

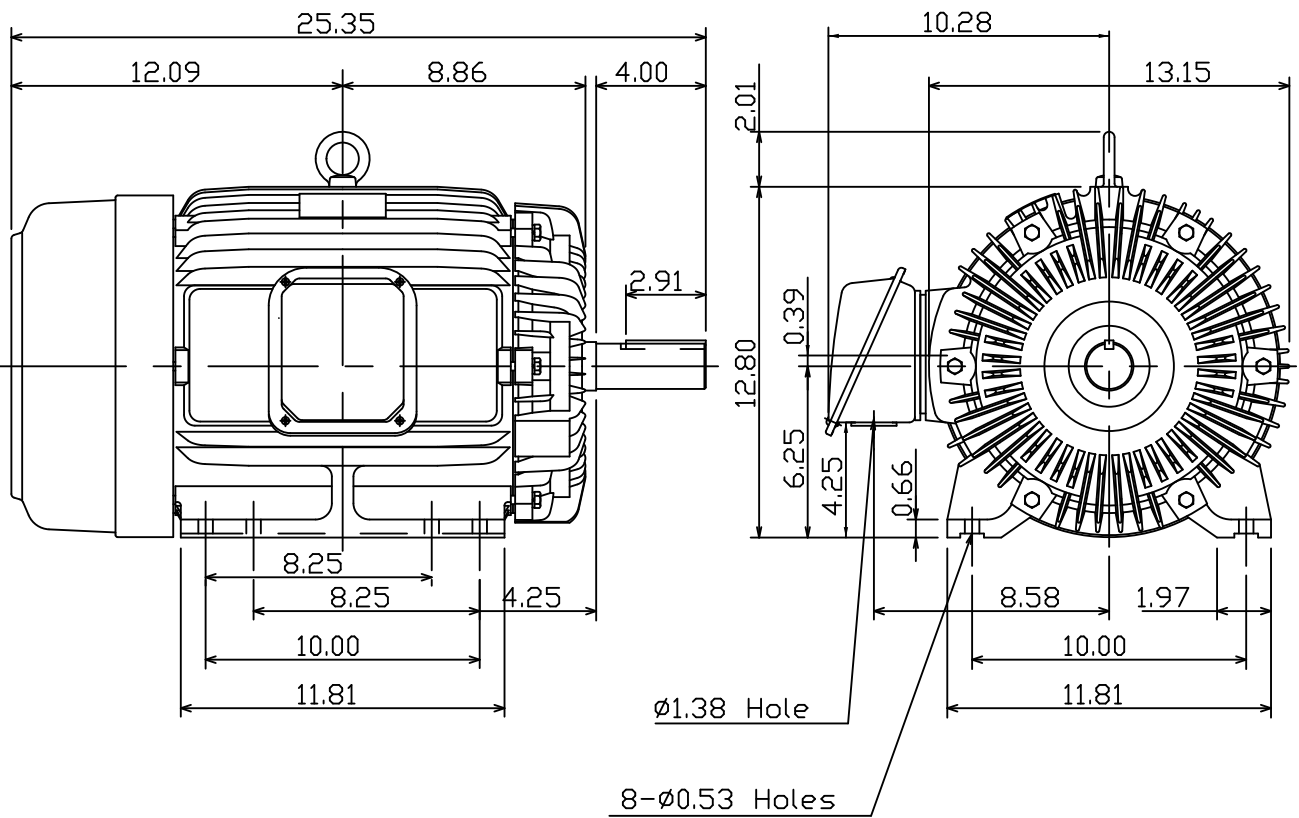
MOTOR TYPE:  
AEHH8P-SGR

FRAME NO. 256T

| Pole | HP | kW   | Hz | VOLT    | Syn.Speed<br>r/min(rpm) |
|------|----|------|----|---------|-------------------------|
| 4    | 20 | 14.9 | 60 | 230/460 | 1800                    |

| Ins | Rating | Dimension in | Approx Weight | Bearings               |
|-----|--------|--------------|---------------|------------------------|
| F   | CONT.  | inch         | 311 lbs.      | DE: 6309ZZ NDE: 6307ZZ |

Totally Enclosed Fan Cooled Squirrel Cage Rotor.



NOTE:  
1. Shaft Grounding Ring Installed



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

TECO Westinghouse

DWG NO.  
31049J349210

# TECO Westinghouse

|                            |   |                            |
|----------------------------|---|----------------------------|
| ISSUED<br><b>1/26/2015</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>NP0204G</b> |

### NAMEPLATE INFORMATION

| OUTPUT    |             | POLE     | FRAME SIZE  | VOLTAGE        | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|-----------|-------------|----------|-------------|----------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP        | KW          |          |             |                |           |               |            |             |              |                |
| <b>20</b> | <b>14.9</b> | <b>4</b> | <b>256T</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>0.0025~20</b> | <b>90~1800</b> | <b>0.146~59.66</b> | <b>0.1871</b>  | <b>0.3098</b> | <b>1.2198</b> | <b>2.074</b> | <b>40.381</b>  |

| CONSTANT TORQUE |             |                 |                | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|-------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP          | RPM             | TORQUE (lb-ft) | HZ                  | HP        | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>2~20</b> | <b>180~1800</b> | <b>59.66</b>   | <b>60~120</b>       | <b>20</b> | <b>1800~3600</b> | <b>59.66~29.83</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>1760</b>   | <b>91.7</b> | <b>93</b> | <b>92.4</b> | <b>92.4</b> | <b>87.5</b>  | <b>84.5</b> | <b>78.5</b> | <b>65</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>11.70</b> | <b>14.62</b> | <b>7.31</b> | <b>50.87</b> | <b>46.00</b> | <b>23.00</b> | <b>262.3</b> | <b>290.0</b> | <b>145</b>  | <b>G</b>             | <b>39</b>                  | <b>27</b> |

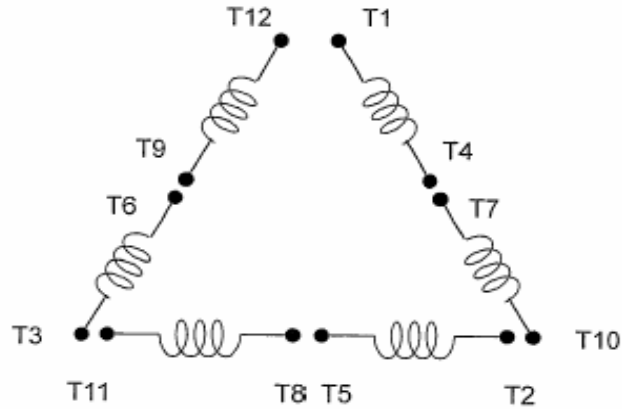
| TORQUE            |                   |              |                 | INERTIA                                     |   |   | ACCEL TIME (DOL)              |                                   | ALLOWABLE STARTS PER HOUR |          |
|-------------------|-------------------|--------------|-----------------|---|---|---|-------------------------------|-----------------------------------|---------------------------|----------|
| 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>59.66</b>      | <b>200</b>        | <b>145</b>   | <b>240</b>      | <b>2.871</b>                                | <b>99</b>                                       | <b>234</b>  | <b>4.80</b>                   | <b>11.16</b>                      | <b>2</b>                  | <b>1</b> |

|           |                  |             |                     |           |          |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057NP0204G</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|---------------------|-----------|----------|

DATE:  
December 6, 2010

# CONNECTION DIAGRAM

CATALOG NO.:  
NP0204G



**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**