

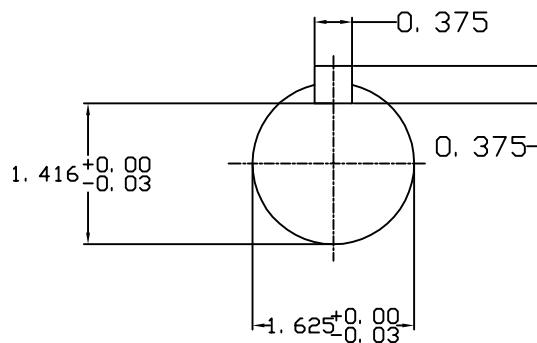
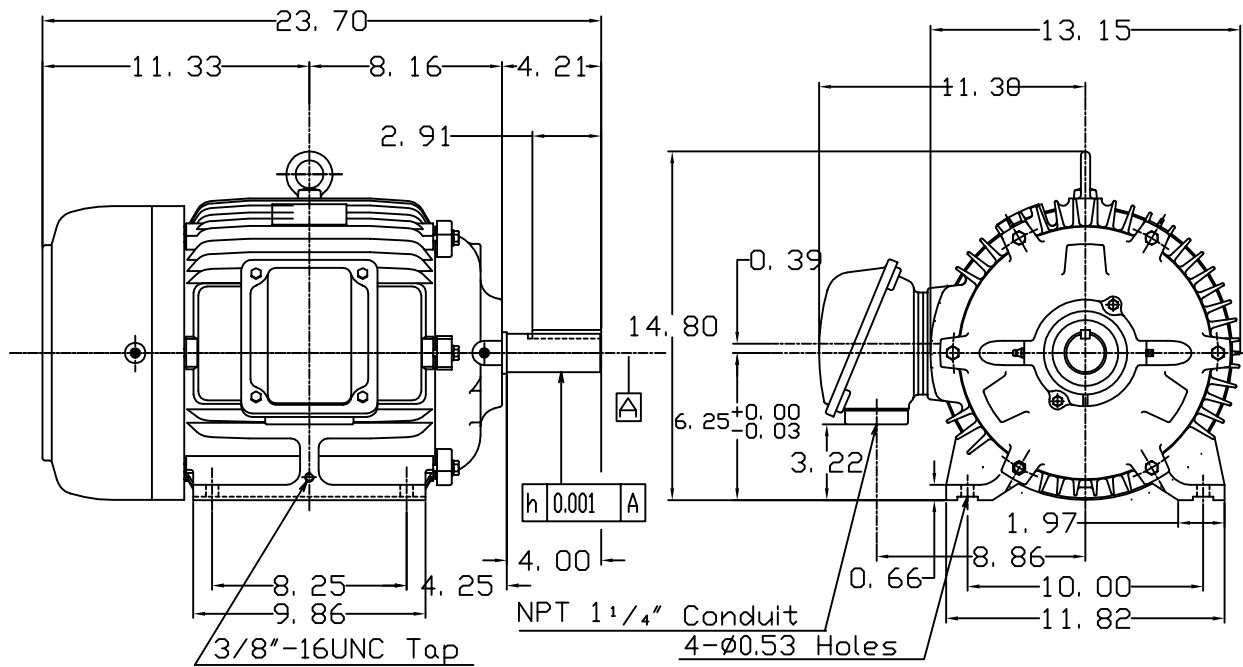
DATE  
APRIL 27, 2003  
CATALOG NO.  
HH0154

OUTLINE DIMENSIONS  
3-PHASE INDUCTION MOTOR

MOTOR TYPE:  
AEHH  
FRAME NO. 254T

| Pole | HP     | KW           | Hz            | VOLT                         | Syn.Speed<br>RPM |
|------|--------|--------------|---------------|------------------------------|------------------|
| 4    | 15     | 11           | 60            | 460                          | 1800             |
| Ins  | Rating | Dimension in | Approx Weight | Bearings                     |                  |
| F    | CONT.  | inches       | 297 lbs.      | DE: 6309ZC35C NDE: 6307ZC35C |                  |

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



|       |     |          |
|-------|-----|----------|
| DWN.  | 簡學民 | 12-04-98 |
| CHKD. | 高金星 | 12-10-98 |
| APPD. | 黃友伯 | 12-10-98 |

TECO Westinghouse

DWG NO.  
31049M625060

# 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>AEHH</b>        |   | CATALOG#<br><b>HH0154</b> |

### NAMEPLATE INFORMATION

| OUTPUT    |             | POLE     | FRAME SIZE  | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|-----------|-------------|----------|-------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP        | KW          |          |             |            |           |               |            |             |              |                |
| <b>15</b> | <b>11.2</b> | <b>4</b> | <b>254T</b> | <b>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>0.0019~15</b> | <b>90~1800</b> | <b>0.111~44.62</b> | <b>0.2605</b>  | <b>0.4003</b> | <b>1.373</b> | <b>1.8687</b> | <b>47.992</b>  |

| CONSTANT TORQUE |               |                 |                | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|---------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP            | RPM             | TORQUE (lb-ft) | HZ                  | HP        | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>1.5~15</b> | <b>180~1800</b> | <b>44.62</b>   | <b>60~120</b>       | <b>15</b> | <b>1800~3600</b> | <b>44.62~22.31</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>1765</b>   | <b>91</b>  | <b>92.4</b> | <b>93</b>  | <b>92.4</b> | <b>88</b>    | <b>85</b>  | <b>77</b>  | <b>64</b>                         |

| CURRENTS    |              |              | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS |           |
|-------------|--------------|--------------|----------------------|----------------------------|-----------|
| NO LOAD     | FULL LOAD    | LOCKED ROTOR |                      | COLD                       | HOT       |
| AT 460 VOLT | AT 460 VOLT  | AT 460 VOLT  |                      |                            |           |
| <b>6.04</b> | <b>17.30</b> | <b>116</b>   | <b>G</b>             | <b>32</b>                  | <b>22</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>44.62</b>      | <b>245</b>        | <b>180</b>   | <b>270</b>      | <b>2.179</b>                                | <b>75</b>                                       | <b>220</b>  | <b>4.25</b>                   | <b>12.23</b>                      | <b>2</b>                  | <b>1</b> |

|           |                  |             |                    |           |          |
|-----------|------------------|-------------|--------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HH0154</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|--------------------|-----------|----------|

DATE:  
May 9, 2005

# CONNECTION DIAGRAM

CATALOG NO.:  
**HH0154**



**SCHEMATIC - Δ CONNECTION**

## ACROSS THE LINE CONNECTION



**460 VOLT CONNECTION**