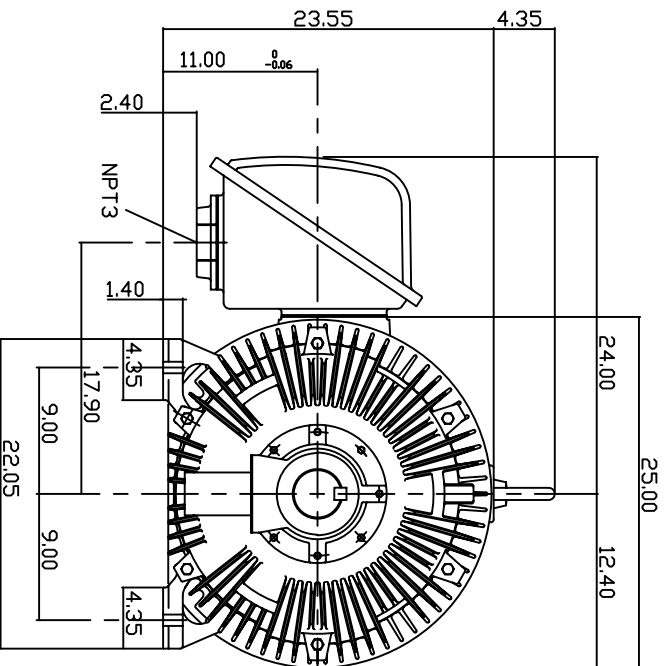
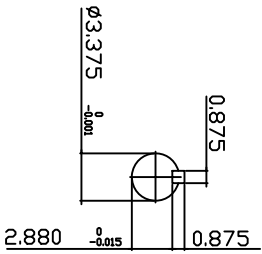
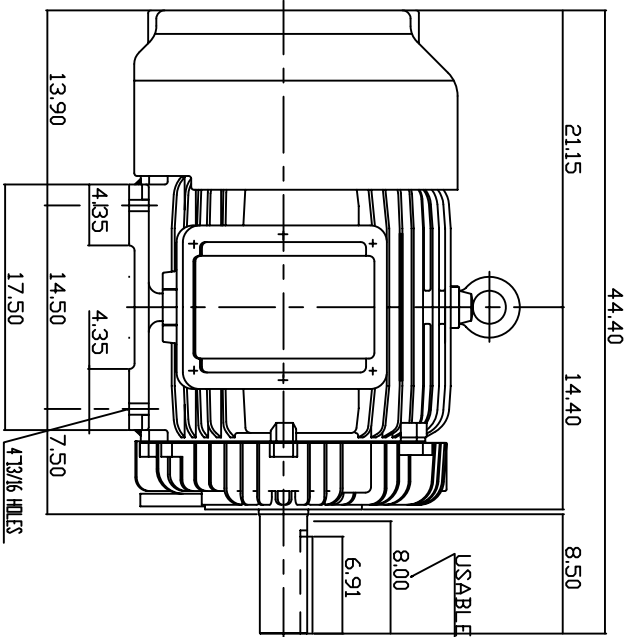


| TYPE  | OUTPUT |      | POLE | TIME RATING | VOLTAGE V | Hz | SYN SPEED R.P.M |
|-------|--------|------|------|-------------|-----------|----|-----------------|
|       | HP.    | KW.  |      |             |           |    |                 |
| AEH8N | 125    | 93.3 | 4    | CONT.       | 230/460   | 60 | 1800            |

TOTALLY ENCLOSED FAN-COOLED TYPE, SQUIRREL-CAGE ROTOR



NOTE:

1. DIMENSIONS IN INCH
2. FRAME NO. 444T
3. F CLASS INSULATION, S.F.1.15
4. FOR BELTED SERVICE
5. ENCLOSURE: IP54
6. BEARING SIZE: DRIVE END: NU318  
NON-DRIVE END: 6316
7. APPROX. WEIGHT: 1600 LBS

TW-56C

|               |             |
|---------------|-------------|
| DWN. N.QIN    | JAN 13 2005 |
| CHKD. H.HUANG | JAN 13 2005 |
| APPD. C.WANG  | JAN 13 2005 |

DATE 20050617  
CATALOG # EP1254R

OUTLINE DIMENSIONS  
3-PHASE INDUCTION MOTOR



DWG NO. 3A040Y599  
REV. 00

# TECO Westinghouse

|                            |   |                            |
|----------------------------|---|----------------------------|
| ISSUED<br><b>8/15/2014</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>TEFC</b>   |
| TYPE<br><b>AEHH8N</b>      |   | CATALOG#<br><b>EP1254R</b> |

### NAMEPLATE INFORMATION

| OUTPUT     |             | POLE     | FRAME SIZE  | VOLTAGE        | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|------------|-------------|----------|-------------|----------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP         | KW          |          |             |                |           |               |            |             |              |                |
| <b>125</b> | <b>93.3</b> | <b>4</b> | <b>444T</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>0.0156~125</b> | <b>90~1800</b> | <b>0.91~368</b> | <b>0.0454</b>  | <b>0.0373</b> | <b>0.3807</b> | <b>0.683</b> | <b>15.6</b>    |

| CONSTANT TORQUE |                 |                 |                | CONSTANT HORSEPOWER |            |                  |                   |
|-----------------|-----------------|-----------------|----------------|---------------------|------------|------------------|-------------------|
| HZ              | HP              | RPM             | TORQUE (lb-ft) | HZ                  | HP         | RPM              | TORQUE (lb-ft)    |
| <b>6~60</b>     | <b>12.5~125</b> | <b>180~1800</b> | <b>368</b>     | <b>60~90</b>        | <b>125</b> | <b>1800-2700</b> | <b>368~245.33</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>1780</b>   | <b>94.5</b> | <b>95.4</b> | <b>95</b>  | <b>94.1</b> | <b>85</b>    | <b>83</b>  | <b>77</b>  | <b>81</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>67.50</b> | <b>75.80</b> | <b>37.9</b> | <b>319.00</b> | <b>292.00</b> | <b>144.00</b> | <b>1641.4</b> | <b>1815.0</b> | <b>910</b>  | <b>G</b>             | <b>24</b>                  | <b>17</b> |

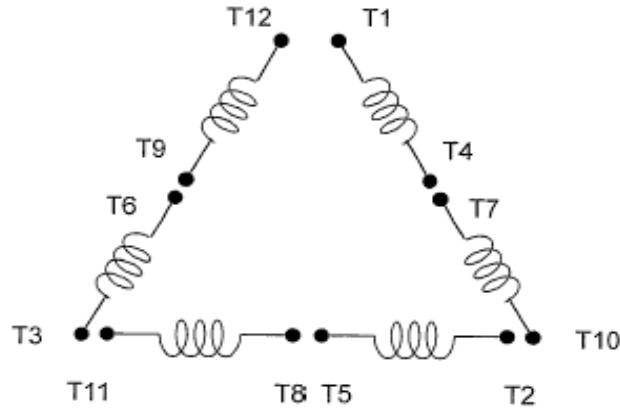
| TORQUE            |                   |              |                 | INERTIA                                     |   |   | ACCEL TIME (DOL)              |                                   | ALLOWABLE STARTS PER HOUR |          |
|-------------------|-------------------|--------------|-----------------|---|---|---|-------------------------------|-----------------------------------|---------------------------|----------|
| 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>368.70</b>     | <b>130</b>        | <b>100</b>   | <b>220</b>      | <b>44.3</b>                                 | <b>542</b>                                      | <b>1084</b>   | <b>5.41</b>                   | <b>10.40</b>                      | <b>2</b>                  | <b>1</b> |

|           |                  |             |                    |           |          |
|-----------|------------------|-------------|--------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057EP1254</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|--------------------|-----------|----------|

DATE:  
December 2, 2005

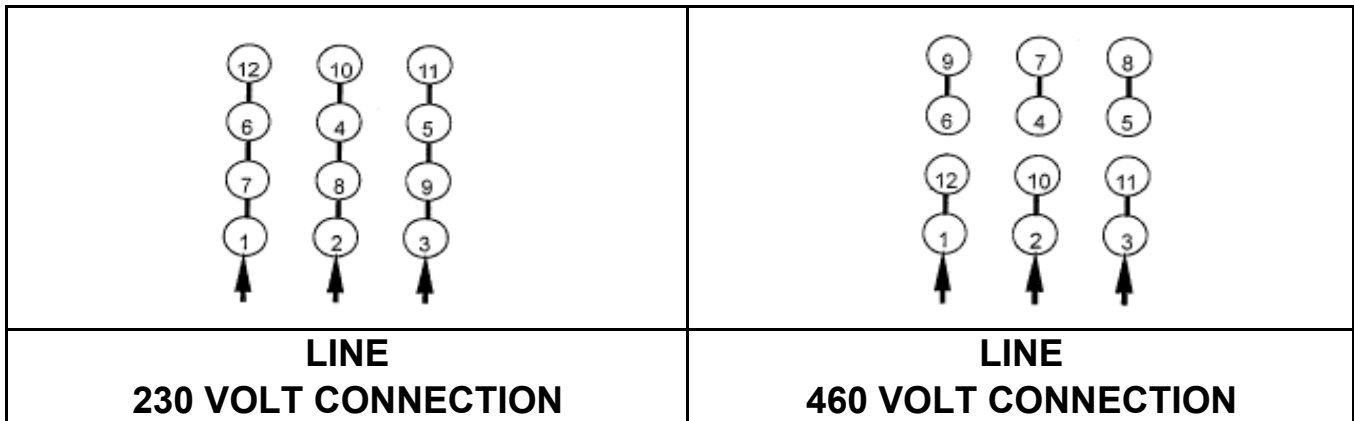
# CONNECTION DIAGRAM

CATALOG NO.:  
EP1254R

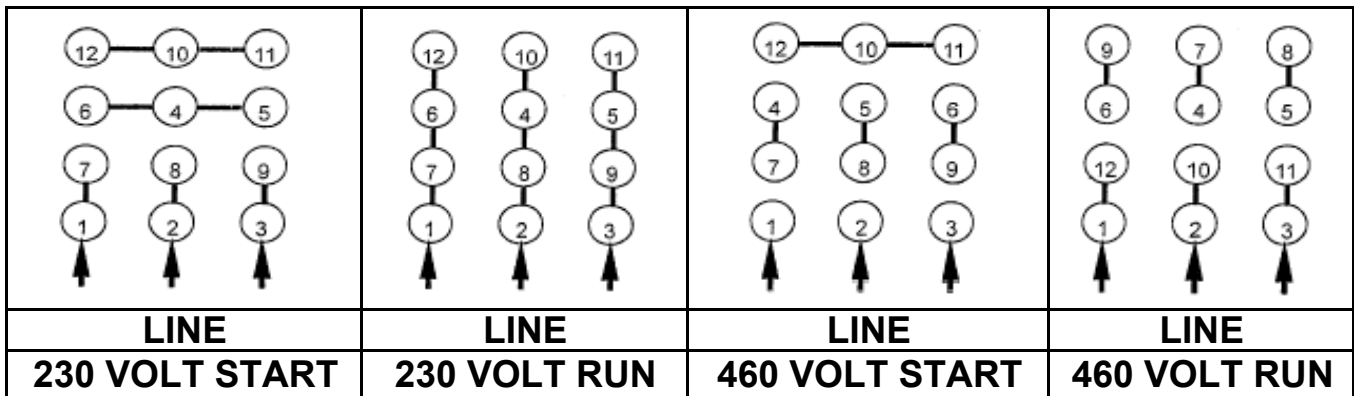


**SCHEMATIC - Δ / Y CONNECTION**

## ACROSS THE LINE CONNECTION



## WYE START-DELTA RUN CONNECTION



DWG NO.  
**DAC-1565-4**