

DATE  
JAN. 4, 2007  
CAT. #: EPV0402C

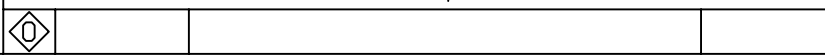
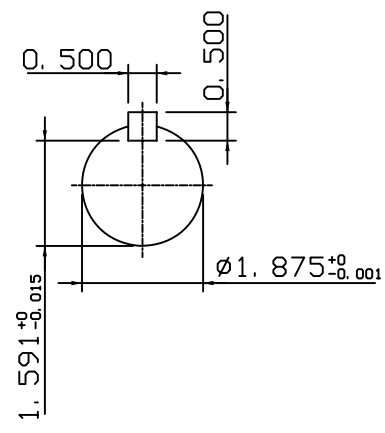
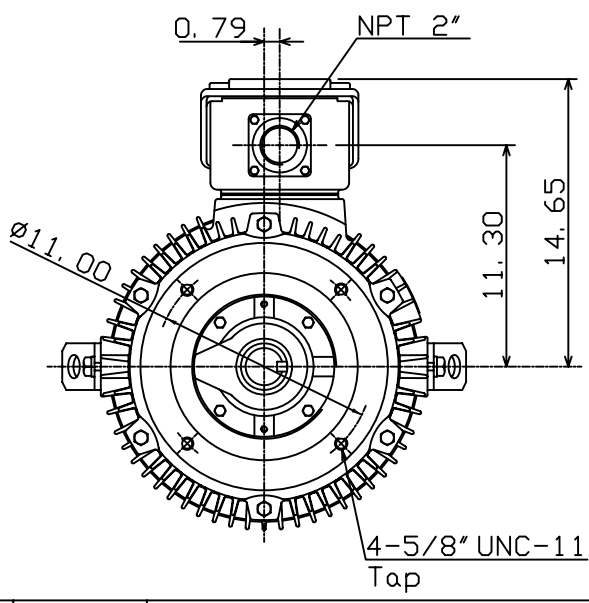
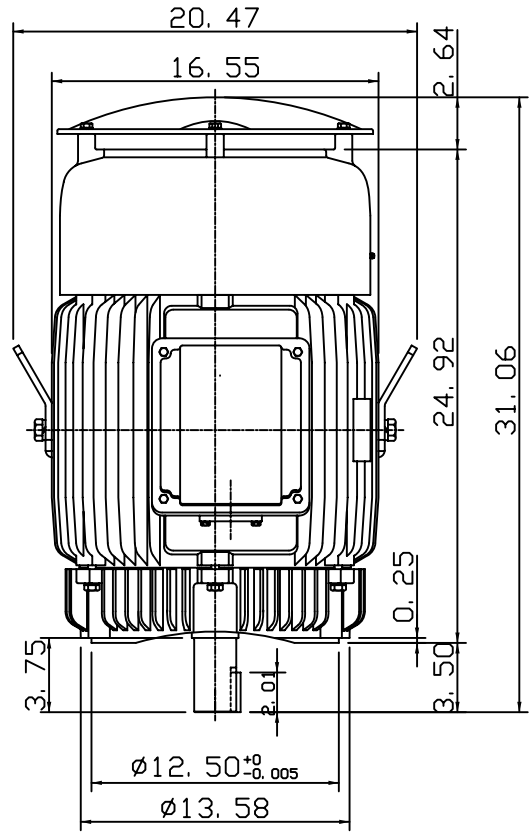
OUTLINE DIMENSIONS  
3-PHASE INDUCTION MOTOR

MOTOR TYPE:  
AEUH8NDC  
FRAME NO. 324TSC

| Pole | HP | kW | Hz | VOLT    | Syn. Speed<br>r/min(rpm) |
|------|----|----|----|---------|--------------------------|
| 2    | 40 | 30 | 60 | 230/460 | 3600                     |

| Ins | Rating | Dimension in | Approx Weight | Bearings               |
|-----|--------|--------------|---------------|------------------------|
| F   | CONT.  | inches       | 640 LBS       | DE: 6312C3 NDE: 6212C3 |

Totally Enclosed Fan-cooled Vertical Type. Squirrel-cage Rotor.



|       |            |          |
|-------|------------|----------|
| DWN.  | K. L. KUO  | 01-02-07 |
| CHKD. | K. L. KUO  | 01-02-07 |
| APPD. | M. C. TSAI | 01-02-07 |



DWG NO.  
31057H204700

# 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>AEUH8NDC</b>    |   | CATALOG#<br><b>EPV0402C</b> |

### NAMEPLATE INFORMATION

| OUTPUT    |             | POLE     | FRAME SIZE    | VOLTAGE        | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|-----------|-------------|----------|---------------|----------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP        | KW          |          |               |                |           |               |            |             |              |                |
| <b>40</b> | <b>29.8</b> | <b>2</b> | <b>324TSC</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>0.005~40</b> | <b>180~3600</b> | <b>0.146~59.16</b> | <b>0.0675</b>  | <b>0.1122</b> | <b>0.4744</b> | <b>0.8272</b> | <b>28.406</b>  |

| CONSTANT TORQUE |             |                 |                | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|-------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP          | RPM             | TORQUE (lb-ft) | HZ                  | HP        | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>4~40</b> | <b>360~3600</b> | <b>59.16</b>   | <b>60~75</b>        | <b>40</b> | <b>3600~4500</b> | <b>59.16~47.33</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>3550</b>   | <b>93</b>  | <b>94.1</b> | <b>94.5</b> | <b>94.1</b> | <b>90</b>    | <b>89</b>  | <b>84.5</b> | <b>78</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>13.10</b> | <b>18.40</b> | <b>9.2</b>  | <b>97.75</b> | <b>88.40</b> | <b>44.20</b> | <b>524.5</b> | <b>580.0</b> | <b>290</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>59.16</b>      | <b>150</b>        | <b>130</b>   | <b>240</b>      | <b>3.59</b>                                 | <b>40</b>                                       | <b>81</b>   | <b>4.55</b>                   | <b>8.83</b>                       | <b>2</b>                  | <b>1</b> |

|           |                  |             |                      |           |          |
|-----------|------------------|-------------|----------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057EPV0402C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|----------------------|-----------|----------|

DATE:  
September 13, 2006

# CONNECTION DIAGRAM

CATALOG NO.:  
EPV0402C



**SCHEMATIC - Δ / Y CONNECTION**

## ACROSS THE LINE CONNECTION



## WYE START-DELTA RUN CONNECTION



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