

# TECO Westinghouse

|                            |   |                           |
|----------------------------|---|---------------------------|
| ISSUED<br><b>8/28/2014</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>TEFC</b>  |
| TYPE<br><b>AEHH8B</b>      |   | CATALOG#<br><b>HB0022</b> |

### NAMEPLATE INFORMATION

| OUTPUT   |            | POLE     | FRAME SIZE  | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|----------|------------|----------|-------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP       | KW         |          |             |            |           |               |            |             |              |                |
| <b>2</b> | <b>1.5</b> | <b>2</b> | <b>145T</b> | <b>460</b> | <b>60</b> | <b>50°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>0.0003~2</b> | <b>180~3600</b> | <b>0.009~3.031</b> | <b>3.6032</b>  | <b>4.4722</b> | <b>6.1885</b> | <b>8.3917</b> | <b>260.73</b>  |

| CONSTANT TORQUE |             |                 |                | CONSTANT HORSEPOWER |          |                  |                    |
|-----------------|-------------|-----------------|----------------|---------------------|----------|------------------|--------------------|
| HZ              | HP          | RPM             | TORQUE (lb-ft) | HZ                  | HP       | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>.2~2</b> | <b>360~3600</b> | <b>3.031</b>   | <b>60~120</b>       | <b>2</b> | <b>3600~7200</b> | <b>3.031~1.516</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>3465</b>   | <b>84</b>  | <b>86.5</b> | <b>86.5</b> | <b>85.5</b> | <b>86</b>    | <b>80.5</b> | <b>70</b>  | <b>61</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>1</b>    | <b>2.52</b> | <b>25</b>    | <b>L</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>3.03</b>       | <b>350</b>        | <b>315</b>   | <b>390</b>      | <b>0.064</b>                                | <b>2.4</b>                                      | <b>6.5</b>  | <b>2.79</b>                   | <b>7.42</b>                       | <b>2</b>                  | <b>1</b> |

|           |                  |             |                    |           |          |
|-----------|------------------|-------------|--------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HB0022</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|--------------------|-----------|----------|