

# 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>AEHH8BCF</b>    |                                                           | CATALOG#<br><b>HB1/54C</b> |

## NAMEPLATE INFORMATION

| OUTPUT     |            | POLE     | FRAME SIZE   | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|------------|------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP         | KW         |          |              |            |           |               |            |             |              |                |
| <b>1.5</b> | <b>1.1</b> | <b>4</b> | <b>145TC</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<br>(lb-ft)  | R1                                                                         | R2            | X1            | X2            | X <sub>m</sub> |
| <b>3~60</b>     | <b>0.0002~1.5</b> | <b>90~1800</b> | <b>0.011~4.552</b> | <b>5.763</b>                                                               | <b>5.3809</b> | <b>13.911</b> | <b>8.6689</b> | <b>209.64</b>  |

|                 |                |                 |                   |                     |            |                  |                    |
|-----------------|----------------|-----------------|-------------------|---------------------|------------|------------------|--------------------|
| CONSTANT TORQUE |                |                 |                   | CONSTANT HORSEPOWER |            |                  |                    |
| HZ              | HP             | RPM             | TORQUE<br>(lb-ft) | HZ                  | HP         | RPM              | TORQUE<br>(lb-ft)  |
| <b>6~60</b>     | <b>.15~1.5</b> | <b>180~1800</b> | <b>4.552</b>      | <b>60~120</b>       | <b>1.5</b> | <b>1800~3600</b> | <b>4.552~2.276</b> |

## TYPICAL PERFORMANCE

| FULL<br>LOAD<br>RPM | EFFICIENCY |       |               |               | POWER FACTOR   |               |               | SOUND<br>PRESSURE<br>LEVEL @ 3 FT<br>Db(A) |
|---------------------|------------|-------|---------------|---------------|----------------|---------------|---------------|--------------------------------------------|
|                     | FULL LOAD  |       | 3/4 LOAD<br>% | 1/2 LOAD<br>% | FULL LOAD<br>% | 3/4 LOAD<br>% | 1/2 LOAD<br>% |                                            |
|                     | MIN.%      | NOM.% |               |               |                |               |               |                                            |
| 1730                | 84         | 86.5  | 86.5          | 85.5          | 78             | 70            | 57            | 50                                         |

| CURRENTS          |                   |                   | NEMA<br>KVA<br>CODE<br>LETTER | SAFE STALL<br>TIME IN<br>SECONDS |     |
|-------------------|-------------------|-------------------|-------------------------------|----------------------------------|-----|
| NO LOAD           | FULL LOAD         | LOCKED ROTOR      |                               | COLD                             | HOT |
| AT<br>460<br>VOLT | AT<br>460<br>VOLT | AT<br>460<br>VOLT |                               |                                  |     |
| 1.11              | 2.08              | 20                | M                             | 57                               | 40  |

| 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>4.55</b>       | <b>300</b>        | <b>260</b>   | <b>360</b>      | <b>0.093</b>                                | <b>8.6</b>                                      | <b>47</b>                                           | <b>3.62</b>                   | <b>19.59</b>                      | <b>2</b>                  | <b>1</b> |

|           |                  |             |                     |           |          |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HB1/54C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|---------------------|-----------|----------|