

# TECO Westinghouse

|                                 |                                                           |                           |
|---------------------------------|-----------------------------------------------------------|---------------------------|
| ISSUED<br><b>March 23, 2012</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>HB0058</b> |

## NAMEPLATE INFORMATION

| OUTPUT   |            | POLE     | FRAME SIZE  | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|----------|------------|----------|-------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP       | KW         |          |             |            |           |               |            |             |              |                |
| <b>5</b> | <b>3.7</b> | <b>8</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>    |

## TYPICAL PERFORMANCE

| FULL<br>LOAD<br>RPM | EFFICIENCY |        |          |          | POWER FACTOR |          |          | MAXIMUM<br>POWER FACTOR<br>CORRECTION |
|---------------------|------------|--------|----------|----------|--------------|----------|----------|---------------------------------------|
|                     | FULL LOAD  |        | 3/4 LOAD | 1/2 LOAD | F. L.        | 3/4 LOAD | 1/2 LOAD |                                       |
|                     | MIN. %     | NOM. % | %        | %        | %            | %        | %        |                                       |
| 870                 | 84         | 86.5   | 86.5     | 85.5     | 72           | 64       | 51.5     | 4 KVAR                                |

## CURRENTS

| NO LOAD     | FULL LOAD   | LOCKED ROTOR | NEMA KVA CODE LETTER |
|-------------|-------------|--------------|----------------------|
| AT          | AT          | AT           |                      |
| 460         | 460         | 460          |                      |
| VOLT        | VOLT        | VOLT         |                      |
| <b>4.64</b> | <b>7.52</b> | <b>46.00</b> | <b>J</b>             |

## TORQUE

## INERTIA

## ACCEL TIME

| 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 |
|-----------------|-------------------|--------------|-----------------|------------------------------------------|----------------------------------------------|--------------------------------------------------|-------------------------------|-----------------------------------|
| <b>30.17</b>    | <b>190</b>        | <b>185</b>   | <b>240</b>      | <b>1.66</b>                              | <b>142</b>                                   | <b>353</b>                                       | <b>6.73</b>                   | <b>16.60</b>                      |

SAFE STALL TIME IN SECONDS

ALLOWABLE STARTS PER HOUR

SOUND PRESSURE LEVEL @ 3 FT dB(A)

| COLD      | HOT       | COLD     | HOT      | 54 |
|-----------|-----------|----------|----------|----|
| <b>47</b> | <b>33</b> | <b>2</b> | <b>1</b> |    |

APPROVED:

**M. PRATER**

DRAWING NO.

**31057HB0058**

REVISION **0**