

# TECO Westinghouse

|                                 |                                                           |                           |
|---------------------------------|-----------------------------------------------------------|---------------------------|
| ISSUED<br><b>March 19, 2014</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>TEFC</b>  |
| TYPE<br><b>AEHGTK</b>           |                                                           | CATALOG#<br><b>KG1004</b> |

## NAMEPLATE INFORMATION

| OUTPUT     |           | POLE     | FRAME SIZE  | VOLTAGE          | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|------------|-----------|----------|-------------|------------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP         | KW        |          |             |                  |           |               |            |             |              |                |
| <b>100</b> | <b>75</b> | <b>4</b> | <b>444T</b> | <b>2300/4160</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<br>% | 1/2 LOAD<br>% | F. L.<br>%   | 3/4 LOAD<br>% | 1/2 LOAD<br>% |                                       |
|                     | MIN. %     | NOM. % |               |               |              |               |               |                                       |
| 1784                | 91.7       | 93     | 92.4          | 90.7          | 79.5         | 74.5          | 64.9          | 46 KVAR                               |

## CURRENTS

| NO LOAD      |              | FULL LOAD    |              | LOCKED ROTOR |              | NEMA KVA CODE LETTER |
|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|
| AT 2300 VOLT | AT 4160 VOLT | AT 2300 VOLT | AT 4160 VOLT | AT 2300 VOLT | AT 4160 VOLT |                      |
| <b>11.5</b>  | <b>6.37</b>  | <b>25.3</b>  | <b>14.0</b>  | <b>163</b>   | <b>90.0</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>294</b>      | <b>120</b>        | <b>114</b>   | <b>200</b>      | <b>38</b>                                | <b>441</b>                                   | <b>882</b>                                       | <b>6.02</b>                   | <b>11.57</b>                      |

SAFE STALL TIME IN SECONDS

ALLOWABLE STARTS PER HOUR

SOUND PRESSURE LEVEL @ 3 FT dB(A)

| COLD      | HOT       | COLD     | HOT      | 85 |
|-----------|-----------|----------|----------|----|
| <b>17</b> | <b>12</b> | <b>2</b> | <b>1</b> |    |

APPROVED:

**M. PRATER**

DRAWING NO.

**3A057KG1004T**

REV. **1**