

# TECO Westinghouse

|                                     |                                                           |                               |
|-------------------------------------|-----------------------------------------------------------|-------------------------------|
| ISSUED<br><b>September 14, 2006</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>TEFC</b>      |
| TYPE<br><b>AEHH8NCF</b>             |                                                           | CATALOG#<br><b>EP0402C-50</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>190/380</b> | <b>50</b> | <b>40°C</b>   | <b>F</b>   | <b>B</b>    | <b>CONT.</b> | <b>1.0</b>     |

## TYPICAL PERFORMANCE

| FULL LOAD RPM | EFFICIENCY  |             |             |             | POWER FACTOR |             |           | MAXIMUM POWER FACTOR CORRECTION |
|---------------|-------------|-------------|-------------|-------------|--------------|-------------|-----------|---------------------------------|
|               | FULL LOAD   |             | 3/4 LOAD    | 1/2 LOAD    | F. L.        | 3/4 LOAD    | 1/2 LOAD  |                                 |
|               | MIN. %      | NOM. %      | %           | %           | %            | %           | %         |                                 |
| <b>2935</b>   | <b>90.2</b> | <b>91.7</b> | <b>92.4</b> | <b>91.7</b> | <b>89.5</b>  | <b>89.5</b> | <b>88</b> | <b>6.84 KVAR</b>                |

## CURRENTS

| NO LOAD      |  | FULL LOAD   |               |  | LOCKED ROTOR |               |               | NEMA KVA CODE LETTER |
|--------------|--|-------------|---------------|--|--------------|---------------|---------------|----------------------|
| AT 109 VOLT  |  | AT 380 VOLT | AT 190 VOLT   |  | AT 380 VOLT  | AT 190 VOLT   | AT 380 VOLT   |                      |
| <b>17.16</b> |  | <b>8.58</b> | <b>110.40</b> |  | <b>55.20</b> | <b>774.00</b> | <b>387.00</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>71.55</b>    | <b>130</b>        | <b>115</b>   | <b>205</b>      | <b>3.59</b>                              | <b>61.9042</b>                               | <b>121.4285714</b>                               | <b>5.37</b>                   | <b>10.25</b>                      |

SAFE STALL TIME IN SECONDS

ALLOWABLE STARTS PER HOUR

SOUND PRESSURE LEVEL @ 3 FT dB(A)

| COLD      | HOT       | COLD     | HOT      |           |
|-----------|-----------|----------|----------|-----------|
| <b>17</b> | <b>12</b> | <b>2</b> | <b>1</b> | <b>78</b> |

APPROVED:

**M. PRATER**

DRAWING NO.

**31057EP0402C-50**

REVISION **0**