

# TECO Westinghouse

|                                    |                                |                              |
|------------------------------------|--------------------------------|------------------------------|
| ISSUED<br><b>December 16, 2005</b> | <b>PERFORMANCE DATA</b>        | ENCLOSURE<br><b>TEFC</b>     |
| TYPE<br><b>AEHH</b>                | <b>3-PHASE INDUCTION MOTOR</b> | CATALOG#<br><b>HH0402-50</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>324TS</b> | <b>380</b> | <b>50</b> | <b>40°C</b>   | <b>F</b>   | <b>B</b>    | <b>CONT.</b> | <b>1.00</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>7 KVAR</b>                   |

### CURRENTS

| NO LOAD     | FULL LOAD    | LOCKED ROTOR  | NEMA KVA CODE LETTER |
|-------------|--------------|---------------|----------------------|
| AT          | AT           | AT            |                      |
| 380 VOLT    | 380 VOLT     | 380 VOLT      |                      |
| <b>8.58</b> | <b>55.20</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      | 78 |
|-----------|-----------|----------|----------|----|
| <b>17</b> | <b>12</b> | <b>2</b> | <b>1</b> |    |

|           |                  |             |                    |                   |
|-----------|------------------|-------------|--------------------|-------------------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HH0402</b> | REVISION <b>0</b> |
|-----------|------------------|-------------|--------------------|-------------------|