

# TECO Westinghouse

|                                     |                                |                               |
|-------------------------------------|--------------------------------|-------------------------------|
| ISSUED<br><b>September 14, 2006</b> | <b>PERFORMANCE DATA</b>        | ENCLOSURE<br><b>TEFC</b>      |
| TYPE<br><b>AEHH8NCF</b>             | <b>3-PHASE INDUCTION MOTOR</b> | CATALOG#<br><b>EP1002C-50</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>74.6</b> | <b>2</b> | <b>405TSC</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>2950</b>   | <b>93.6</b> | <b>94.5</b> | <b>95</b> | <b>95</b> | <b>93</b>    | <b>93</b> | <b>91.5</b> | <b>11.87 KVAR</b>               |

### CURRENTS

| NO LOAD      |  | FULL LOAD    |               |          | LOCKED ROTOR  |                |               | NEMA KVA CODE LETTER |
|--------------|--|--------------|---------------|----------|---------------|----------------|---------------|----------------------|
| AT           |  | AT           | AT            | AT       | AT            | AT             |               |                      |
| 109 VOLT     |  | 380 VOLT     | 190 VOLT      | 380 VOLT | 190 VOLT      | 380 VOLT       |               |                      |
| <b>29.80</b> |  | <b>14.90</b> | <b>258.00</b> |          | <b>129.00</b> | <b>1930.00</b> | <b>965.00</b> | <b>G</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>178</b>      | <b>110</b>        | <b>100</b>   | <b>255</b>      | <b>10.773</b>                            | <b>144.077</b>                               | <b>302.8571429</b>                               | <b>4.61</b>                   | <b>9.33</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: | <b>M. PRATER</b> | DRAWING NO. | <b>31057EP1002C-50</b> | REVISION <b>0</b> |
|-----------|------------------|-------------|------------------------|-------------------|