

# TECO Westinghouse

|                               |   |                                     |
|-------------------------------|---|-------------------------------------|
| ISSUED<br><b>May 14, 2011</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>EXPLOSION PROOF</b> |
| TYPE<br><b>AEHXXF</b>         |   | CATALOG#<br><b>XP1004C</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>4</b> | <b>405TC</b> | <b>230/460</b> | <b>60</b> | <b>40°C</b>   | <b>F</b>   | <b>B</b>    | <b>CONT.</b> | <b>1.15</b>    |

### TYPICAL PERFORMANCE

| FULL 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>1775</b>   | <b>94.5</b> | <b>95.4</b> | <b>95.5</b> | <b>95.5</b> | <b>90</b>    | <b>89</b> | <b>84</b> | <b>21.4 KVAR</b>                |

### CURRENTS

| NO LOAD      |              |              | FULL LOAD     |               |               | LOCKED ROTOR   |                |               | NEMA KVA CODE LETTER |
|--------------|--------------|--------------|---------------|---------------|---------------|----------------|----------------|---------------|----------------------|
| AT           | AT           | AT           | AT            | AT            | AT            | AT             | AT             | AT            |                      |
| 208 VOLT     | 230 VOLT     | 460 VOLT     | 208 VOLT      | 230 VOLT      | 460 VOLT      | 208 VOLT       | 230 VOLT       | 460 VOLT      |                      |
| <b>59.49</b> | <b>53.80</b> | <b>26.90</b> | <b>241.06</b> | <b>218.00</b> | <b>109.00</b> | <b>1603.37</b> | <b>1450.00</b> | <b>725.00</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>295.8</b>    | <b>200</b>        | <b>170</b>   | <b>240</b>      | <b>25.78</b>                             | <b>441</b>                                   | <b>761.00</b>                                    | <b>4.47</b>                   | <b>7.54</b>                       |

SAFE STALL TIME IN SECONDS

ALLOWABLE STARTS PER HOUR

SOUND PRESSURE LEVEL @ 3 FT dB(A)

| COLD      | HOT       | COLD     | HOT      | 80 |
|-----------|-----------|----------|----------|----|
| <b>17</b> | <b>12</b> | <b>2</b> | <b>1</b> |    |

|           |                  |             |                     |                   |
|-----------|------------------|-------------|---------------------|-------------------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057XP1004C</b> | REVISION <b>0</b> |
|-----------|------------------|-------------|---------------------|-------------------|