

# TECO Westinghouse

|                                  |   |                              |
|----------------------------------|---|------------------------------|
| ISSUED<br><b>August 25, 2017</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>TEFC</b>     |
| TYPE<br><b>AEHCEC</b>            |   | CATALOG#<br><b>VSKTP4504</b> |

### NAMEPLATE INFORMATION

| OUTPUT     |            | POLE     | FRAME SIZE  | VOLTAGE          | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|------------|------------|----------|-------------|------------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP         | KW         |          |             |                  |           |               |            |             |              |                |
| <b>450</b> | <b>336</b> | <b>4</b> | <b>5808</b> | <b>2300/4000</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>1785</b>   | <b>94.5</b> | <b>95.4</b> | <b>95.2</b> | <b>94.4</b> | <b>83.7</b>  | <b>80.3</b> | <b>71.8</b> | <b>136 KVAR</b>                 |

### CURRENTS

| NO LOAD     |             | FULL LOAD    |             | LOCKED ROTOR |            | NEMA KVA CODE LETTER |
|-------------|-------------|--------------|-------------|--------------|------------|----------------------|
| AT          | AT          | AT           | AT          | AT           | AT         |                      |
| 2300 VOLT   | 4000 VOLT   | 2300 VOLT    | 4000 VOLT   | 2300 VOLT    | 4000 VOLT  |                      |
| <b>34.2</b> | <b>19.7</b> | <b>105.1</b> | <b>60.4</b> | <b>713</b>   | <b>410</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>1320</b>     | <b>100</b>        | <b>90</b>    | <b>200</b>      | <b>238</b>                               | <b>1714</b>                                  | <b>2571</b>                                      | <b>5.71</b>                   | <b>8.22</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>14</b> | <b>2</b> | <b>1</b> |    |

APPROVED:

**M. PRATER**

DRAWING NO.

**31059VSKTP4504**

REV. **0**