

# TECO Westinghouse

|                             |   |                            |
|-----------------------------|---|----------------------------|
| ISSUED<br><b>12/30/2013</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>TEFC</b>   |
| TYPE<br><b>AEHH8P</b>       |   | CATALOG#<br><b>NP2004R</b> |

### NAMEPLATE INFORMATION

| OUTPUT     |              | POLE     | FRAME SIZE  | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|------------|--------------|----------|-------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP         | KW           |          |             |            |           |               |            |             |              |                |
| <b>200</b> | <b>149.2</b> | <b>4</b> | <b>447T</b> | <b>460</b> | <b>60</b> | <b>40°C</b>   | <b>F</b>   | <b>B</b>    | <b>CONT.</b> | <b>1.15</b>    |

### VARIABLE FREQUENCY DRIVE SERVICE

|                 |                  |                |                  |  |               |              |              |                |
|-----------------|------------------|----------------|------------------|--|---------------|--------------|--------------|----------------|
| VARIABLE TORQUE |                  |                |                  | OHMS/PHASE EQUIVALENT WYE CIRCUIT<br>(AT RATED OPERATING TEMPERATURE 25°C) |               |              |              |                |
| HZ              | HP               | RPM            | TORQUE (lb-ft)   | R1   | R2            | X1           | X2           | X <sub>m</sub> |
| <b>3~60</b>     | <b>0.025~200</b> | <b>90~1800</b> | <b>1.458~588</b> | <b>0.0248</b>  | <b>0.0232</b> | <b>0.219</b> | <b>0.442</b> | <b>10.3</b>    |

| CONSTANT TORQUE |               |                 |                | CONSTANT HORSEPOWER |            |                  |                |
|-----------------|---------------|-----------------|----------------|---------------------|------------|------------------|----------------|
| HZ              | HP            | RPM             | TORQUE (lb-ft) | HZ                  | HP         | RPM              | TORQUE (lb-ft) |
| <b>6~60</b>     | <b>20~200</b> | <b>180~1800</b> | <b>588</b>     | <b>60~90</b>        | <b>200</b> | <b>1800~2700</b> | <b>588~392</b> |

### TYPICAL PERFORMANCE

| FULL LOAD RPM | EFFICIENCY  |             |             |            | POWER FACTOR |             |             | SOUND PRESSURE LEVEL @ 3 FT Db(A) |
|---------------|-------------|-------------|-------------|------------|--------------|-------------|-------------|-----------------------------------|
|               | FULL LOAD   |             | 3/4 LOAD %  | 1/2 LOAD % | FULL LOAD %  | 3/4 LOAD %  | 1/2 LOAD %  |                                   |
|               | MIN.%       | NOM.%       |             |            |              |             |             |                                   |
| <b>1786</b>   | <b>95.4</b> | <b>96.2</b> | <b>95.8</b> | <b>95</b>  | <b>84.5</b>  | <b>82.5</b> | <b>78.5</b> | <b>81</b>                         |

### CURRENTS

| NO LOAD     |  | FULL LOAD   |  | LOCKED ROTOR |  | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS |           |
|-------------|--|-------------|--|--------------|--|----------------------|----------------------------|-----------|
| AT 460 VOLT |  | AT 460 VOLT |  | AT 460 VOLT  |  |                      | COLD                       | HOT       |
| <b>46.4</b> |  | <b>230</b>  |  | <b>1450</b>  |  | <b>G</b>             | <b>19</b>                  | <b>13</b> |

| TORQUE            |                   |              |                 | INERTIA                                     |   |   | ACCEL TIME (DOL)              |                                   | ALLOWABLE STARTS PER HOUR |          |
|-------------------|-------------------|--------------|-----------------|---|---|---|-------------------------------|-----------------------------------|---------------------------|----------|
| 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 | COLD                      | HOT      |
| <b>588.00</b>     | <b>120</b>        | <b>95</b>    | <b>210</b>      | <b>73.5</b>                                 | <b>831</b>                                      | <b>1662</b>   | <b>5.52</b>                   | <b>10.59</b>                      | <b>2</b>                  | <b>1</b> |

|           |                  |             |                     |           |          |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057NP2004R</b> | REVISION: | <b>0</b> |
|-----------|------------------|-------------|---------------------|-----------|----------|