

# TECO Westinghouse

|                            |   |                           |
|----------------------------|---|---------------------------|
| ISSUED<br><b>8/29/2014</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>NP1502</b> |

### NAMEPLATE INFORMATION

| OUTPUT     |              | POLE     | FRAME SIZE   | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|------------|--------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP         | KW           |          |              |            |           |               |            |             |              |                |
| <b>150</b> | <b>111.9</b> | <b>2</b> | <b>445TS</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>0.0188~150</b> | <b>180~3600</b> | <b>0.548~220</b> | <b>0.0362</b>  | <b>0.029</b> | <b>0.306</b> | <b>0.567</b> | <b>15.5</b>    |

| CONSTANT TORQUE |               |                 |                | CONSTANT HORSEPOWER |            |             |                |
|-----------------|---------------|-----------------|----------------|---------------------|------------|-------------|----------------|
| HZ              | HP            | RPM             | TORQUE (lb-ft) | HZ                  | HP         | RPM         | TORQUE (lb-ft) |
| <b>6~60</b>     | <b>15~150</b> | <b>360~3600</b> | <b>220</b>     | <b>60</b>           | <b>150</b> | <b>3600</b> | <b>220</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>3566</b>   | <b>94.1</b> | <b>95</b> | <b>94.5</b> | <b>93.6</b> | <b>87</b>    | <b>84.5</b> | <b>81</b>  | <b>83</b>                         |

| CURRENTS    |               |              | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS |           |
|-------------|---------------|--------------|----------------------|----------------------------|-----------|
| NO LOAD     | FULL LOAD     | LOCKED ROTOR |                      | COLD                       | HOT       |
| AT 460 VOLT | AT 460 VOLT   | AT 460 VOLT  |                      |                            |           |
| <b>42</b>   | <b>170.00</b> | <b>1085</b>  | <b>G</b>             | <b>28</b>                  | <b>19</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>220.00</b>     | <b>110</b>        | <b>88</b>    | <b>220</b>      | <b>20</b>                                   | <b>133</b>                                      | <b>133</b>  | <b>4.93</b>                   | <b>4.93</b>                       | <b>2</b>                  | <b>1</b> |

|           |                  |             |                    |           |          |
|-----------|------------------|-------------|--------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057NP1502</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|--------------------|-----------|----------|