

# 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>AEHH</b>        |   | CATALOG#<br><b>HH0154</b> |

### NAMEPLATE INFORMATION

| OUTPUT<br>HP | KW          | POLE     | FRAME<br>SIZE | VOLTAGE    | HZ        | RATED<br>AMBIENT | INS.<br>CLASS | NEMA<br>DESIGN | TIME<br>RATING | SERVICE<br>FACTOR |
|--------------|-------------|----------|---------------|------------|-----------|------------------|---------------|----------------|----------------|-------------------|
| <b>15</b>    | <b>11.2</b> | <b>4</b> | <b>254T</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<br>(lb-ft)  | R1   | R2            | X1           | X2            | X <sub>m</sub> |
| <b>3~60</b>     | <b>0.0019~15</b> | <b>90~1800</b> | <b>0.111~44.62</b> | <b>0.2605</b>  | <b>0.4003</b> | <b>1.373</b> | <b>1.8687</b> | <b>47.992</b>  |

| CONSTANT TORQUE |               |                 |                   | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|---------------|-----------------|-------------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP            | RPM             | TORQUE<br>(lb-ft) | HZ                  | HP        | RPM              | TORQUE<br>(lb-ft)  |
| <b>6~60</b>     | <b>1.5~15</b> | <b>180~1800</b> | <b>44.62</b>      | <b>60~120</b>       | <b>15</b> | <b>1800~3600</b> | <b>44.62~22.31</b> |

### TYPICAL PERFORMANCE

| FULL<br>LOAD<br>RPM | EFFICIENCY |             |               |               | POWER FACTOR   |               |               | SOUND<br>PRESSURE<br>LEVEL @ 3 FT<br>Db(A) |
|---------------------|------------|-------------|---------------|---------------|----------------|---------------|---------------|--|
|                     | FULL LOAD  |             | 3/4 LOAD<br>% | 1/2 LOAD<br>% | FULL LOAD<br>% | 3/4 LOAD<br>% | 1/2 LOAD<br>% |  |
|                     | MIN.%      | NOM.%       |               |               |                |               |               |  |
| <b>1765</b>         | <b>91</b>  | <b>92.4</b> | <b>93</b>     | <b>92.4</b>   | <b>88</b>      | <b>85</b>     | <b>77</b>     | <b>64</b>                                  |

| CURRENTS          |                   |                   | NEMA<br>KVA<br>CODE<br>LETTER | SAFE STALL<br>TIME IN<br>SECONDS |           |
|-------------------|-------------------|-------------------|-------------------------------|----------------------------------|-----------|
| NO LOAD           | FULL LOAD         | LOCKED ROTOR      |                               | COLD                             | HOT       |
| AT<br>460<br>VOLT | AT<br>460<br>VOLT | AT<br>460<br>VOLT |                               |                                  |           |
| <b>6.04</b>       | <b>17.30</b>      | <b>116</b>        | <b>G</b>                      | <b>32</b>                        | <b>22</b> |

| TORQUE                  |                         |                    |                       | INERTIA   |  |  | ACCEL TIME (DOL)                       |  | ALLOWABLE<br>STARTS<br>PER HOUR |          |
|-------------------------|-------------------------|--------------------|-----------------------|---|--|--|--|--|---------------------------------|----------|
| FULL<br>LOAD<br>(lb-ft) | LOCKED<br>ROTOR<br>%FLT | PULL<br>UP<br>%FLT | BREAK<br>DOWN<br>%FLT | ROTOR<br>WR <sup>2</sup><br>(lb-ft <sup>2</sup> ) | NEMA<br>LOAD<br>WK <sup>2</sup><br>(lb-ft <sup>2</sup> ) | MAX<br>ALLOWABLE<br>WK <sup>2</sup><br>(lb-ft <sup>2</sup> ) | NEMA<br>LOAD<br>WK <sup>2</sup><br>Sec | MAX<br>ALLOWABLE<br>WK <sup>2</sup><br>Sec | COLD                            | HOT      |
| <b>44.62</b>            | <b>245</b>              | <b>180</b>         | <b>270</b>            | <b>2.179</b>                                      | <b>75</b>  | <b>220</b>   | <b>4.25</b>                            | <b>12.23</b>                               | <b>2</b>                        | <b>1</b> |

|           |                  |             |                    |           |          |
|-----------|------------------|-------------|--------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HH0154</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|--------------------|-----------|----------|