

# 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>AEHH8PCF</b>    |   | CATALOG#<br><b>NP0026C</b> |

### NAMEPLATE INFORMATION

| OUTPUT<br>HP | OUTPUT<br>KW | POLE     | FRAME<br>SIZE | VOLTAGE        | HZ        | RATED<br>AMBIENT | INS.<br>CLASS | NEMA<br>DESIGN | TIME<br>RATING | SERVICE<br>FACTOR |
|--------------|--------------|----------|---------------|----------------|-----------|------------------|---------------|----------------|----------------|-------------------|
| <b>2</b>     | <b>1.5</b>   | <b>6</b> | <b>184TC</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>       |

### 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>0.0003~2</b> | <b>60~1200</b> | <b>0.027~8.975</b> | <b>2.4842</b>  | <b>3.3568</b> | <b>10.221</b> | <b>14.587</b> | <b>146.93</b>  |

| CONSTANT TORQUE |             |                 |                   | CONSTANT HORSEPOWER |          |                  |                    |
|-----------------|-------------|-----------------|-------------------|---------------------|----------|------------------|--------------------|
| HZ              | HP          | RPM             | TORQUE<br>(lb-ft) | HZ                  | HP       | RPM              | TORQUE<br>(lb-ft)  |
| <b>6~60</b>     | <b>.2~2</b> | <b>120~1200</b> | <b>8.975</b>      | <b>60~120</b>       | <b>2</b> | <b>1200~2400</b> | <b>8.975~4.488</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>1170</b>         | <b>86.5</b> | <b>88.5</b> | <b>88.5</b>   | <b>86.5</b>   | <b>70.5</b>    | <b>63</b>     | <b>50.5</b>   | <b>53</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>208<br>VOLT | AT<br>230<br>VOLT | AT<br>460<br>VOLT | AT<br>208<br>VOLT | AT<br>230<br>VOLT | AT<br>460<br>VOLT | AT<br>208<br>VOLT | AT<br>230<br>VOLT | AT<br>460<br>VOLT |                               |                                  |           |
| <b>2.90</b>       | <b>3.38</b>       | <b>1.69</b>       | <b>6.63</b>       | <b>6.00</b>       | <b>3.00</b>       | <b>45.2</b>       | <b>50.0</b>       | <b>25</b>         | <b>L</b>                      | <b>95</b>                        | <b>67</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>8.98</b>             | <b>180</b>              | <b>150</b>         | <b>270</b>            | <b>0.423</b>                                      | <b>30</b>  | <b>219</b>   | <b>6.08</b>                            | <b>43.88</b>                               | <b>2</b>                        | <b>1</b> |

|           |                  |             |                     |           |          |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057NP0026C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|---------------------|-----------|----------|