

# 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>NP0202C</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>20</b>    | <b>14.9</b>  | <b>2</b> | <b>256TC</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>0.0025~20</b> | <b>180~3600</b> | <b>0.073~29.83</b> | <b>0.2419</b>                                                              | <b>0.3099</b> | <b>0.8788</b> | <b>1.4624</b> | <b>63.333</b>  |

| CONSTANT TORQUE |             |                 |                   | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|-------------|-----------------|-------------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP          | RPM             | TORQUE<br>(lb-ft) | HZ                  | HP        | RPM              | TORQUE<br>(lb-ft)  |
| <b>6~60</b>     | <b>2~20</b> | <b>360~3600</b> | <b>29.83</b>      | <b>60~90</b>        | <b>20</b> | <b>3600~5400</b> | <b>29.83~19.89</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>3520</b>         | <b>91</b>  | <b>92.4</b> | <b>93</b>     | <b>93.6</b>   | <b>92.5</b>    | <b>91.5</b>   | <b>88</b>     | <b>73</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>7.48</b>       | <b>8.28</b>       | <b>4.14</b>       | <b>48.43</b>      | <b>43.80</b>      | <b>21.90</b>      | <b>262.3</b>      | <b>290.0</b>      | <b>145</b>        | <b>G</b>                      | <b>17</b>                        | <b>12</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>29.83</b>            | <b>210</b>              | <b>180</b>         | <b>260</b>            | <b>1.407</b>                                      | <b>21</b>                                                | <b>42</b>                                                    | <b>3.96</b>                            | <b>7.68</b>                                | <b>2</b>                        | <b>1</b> |

|           |                  |             |                     |           |          |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057NP0202C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|---------------------|-----------|----------|