

# 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>AEUH8BDC</b>    |   | CATALOG#<br><b>HBV0254C</b> |

### NAMEPLATE INFORMATION

| OUTPUT    |             | POLE     | FRAME SIZE   | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|-----------|-------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP        | KW          |          |              |            |           |               |            |             |              |                |
| <b>25</b> | <b>18.7</b> | <b>4</b> | <b>284TC</b> | <b>460</b> | <b>60</b> | <b>50°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>0.0032~25</b> | <b>90~1800</b> | <b>0.187~74.37</b> | <b>0.1408</b>  | <b>0.271</b> | <b>0.8469</b> | <b>1.3283</b> | <b>43.804</b>  |

| CONSTANT TORQUE |               |                 |                | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|---------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP            | RPM             | TORQUE (lb-ft) | HZ                  | HP        | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>2.5~25</b> | <b>180~1800</b> | <b>74.37</b>   | <b>60~90</b>        | <b>25</b> | <b>1800~2700</b> | <b>74.37~49.58</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>1765</b>   | <b>92.4</b> | <b>93.6</b> | <b>93.6</b> | <b>93.6</b> | <b>86</b>    | <b>83</b>  | <b>77</b>  | <b>68</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>7.14</b> | <b>29.10</b> | <b>183</b>   | <b>G</b>             | <b>28</b>                  | <b>20</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>74.37</b>      | <b>205</b>        | <b>165</b>   | <b>240</b>      | <b>4.586</b>                                | <b>122</b>                                      | <b>255</b>  | <b>4.76</b>                   | <b>9.76</b>                       | <b>2</b>                  | <b>1</b> |

|           |                  |             |                      |           |          |
|-----------|------------------|-------------|----------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HBV0254C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|----------------------|-----------|----------|