

# 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>HBV0056C</b> |

### NAMEPLATE INFORMATION

| OUTPUT   |            | POLE     | FRAME SIZE   | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|----------|------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP       | KW         |          |              |            |           |               |            |             |              |                |
| <b>5</b> | <b>3.7</b> | <b>6</b> | <b>215TC</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>0.0006~5</b> | <b>60~1200</b> | <b>0.053~22.44</b> | <b>1.0045</b>  | <b>1.3637</b> | <b>3.7091</b> | <b>4.983</b> | <b>88.667</b>  |

| CONSTANT TORQUE |             |                 |                | CONSTANT HORSEPOWER |          |                  |                    |
|-----------------|-------------|-----------------|----------------|---------------------|----------|------------------|--------------------|
| HZ              | HP          | RPM             | TORQUE (lb-ft) | HZ                  | HP       | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>.5~5</b> | <b>120~1200</b> | <b>22.44</b>   | <b>60~120</b>       | <b>5</b> | <b>1200~2400</b> | <b>22.44~11.22</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>1170</b>   | <b>89.5</b> | <b>91</b> | <b>91</b>  | <b>89.5</b> | <b>82.5</b>  | <b>77</b>  | <b>65.5</b> | <b>55</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>2.88</b> | <b>6.24</b> | <b>46</b>    | <b>J</b>             | <b>68</b>                  | <b>48</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>22.44</b>      | <b>190</b>        | <b>160</b>   | <b>300</b>      | <b>1.224</b>                                | <b>71</b>                                       | <b>416</b>  | <b>5.32</b>                   | <b>30.71</b>                      | <b>2</b>                  | <b>1</b> |

|           |                  |             |                      |           |          |
|-----------|------------------|-------------|----------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HBV0056C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|----------------------|-----------|----------|