

# 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>HBV0152C</b> |

### NAMEPLATE INFORMATION

| OUTPUT    |             | POLE     | FRAME SIZE   | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|-----------|-------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP        | KW          |          |              |            |           |               |            |             |              |                |
| <b>15</b> | <b>11.2</b> | <b>2</b> | <b>254TC</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>0.0019~15</b> | <b>180~3600</b> | <b>0.055~22.34</b> | <b>0.3144</b>  | <b>0.3797</b> | <b>1.1823</b> | <b>1.8437</b> | <b>70.172</b>  |

| CONSTANT TORQUE |               |                 |                | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|---------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP            | RPM             | TORQUE (lb-ft) | HZ                  | HP        | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>1.5~15</b> | <b>360~3600</b> | <b>22.34</b>   | <b>60~90</b>        | <b>15</b> | <b>3600~5400</b> | <b>22.34~14.89</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>3525</b>   | <b>91</b>  | <b>92.4</b> | <b>92.4</b> | <b>91.7</b> | <b>91.5</b>  | <b>90.5</b> | <b>86</b>  | <b>73</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>3.72</b> | <b>16.60</b> | <b>116</b>   | <b>G</b>             | <b>17</b>                  | <b>12</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>22.34</b>      | <b>210</b>        | <b>180</b>   | <b>270</b>      | <b>1.088</b>                                | <b>16</b>                                       | <b>41</b>   | <b>3.95</b>                   | <b>9.73</b>                       | <b>2</b>                  | <b>1</b> |

|           |                  |             |                      |           |          |
|-----------|------------------|-------------|----------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HBV0152C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|----------------------|-----------|----------|