

# 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>AEHH</b>        |   | CATALOG#<br><b>HH0604</b> |

### NAMEPLATE INFORMATION

| OUTPUT    |             | POLE     | FRAME SIZE  | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|-----------|-------------|----------|-------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP        | KW          |          |             |            |           |               |            |             |              |                |
| <b>60</b> | <b>44.8</b> | <b>4</b> | <b>364T</b> | <b>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 (lb-ft)     | R1   | R2            | X1            | X2            | X <sub>m</sub> |
| <b>3~60</b>     | <b>0.0075~60</b> | <b>90~1800</b> | <b>0.438~177.5</b> | <b>0.0404</b>  | <b>0.0827</b> | <b>0.2924</b> | <b>0.5274</b> | <b>12.217</b>  |

| CONSTANT TORQUE |             |                 |                | CONSTANT HORSEPOWER |           |                  |                    |
|-----------------|-------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ              | HP          | RPM             | TORQUE (lb-ft) | HZ                  | HP        | RPM              | TORQUE (lb-ft)     |
| <b>6~60</b>     | <b>6~60</b> | <b>180~1800</b> | <b>177.5</b>   | <b>60~90</b>        | <b>60</b> | <b>1800~2700</b> | <b>177.5~118.3</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>1775</b>   | <b>94.1</b> | <b>95</b> | <b>95</b>  | <b>94.5</b> | <b>86.5</b>  | <b>83</b>  | <b>75.5</b> | <b>79</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>21.2</b> | <b>68.40</b> | <b>435</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>177.50</b>     | <b>200</b>        | <b>155</b>   | <b>240</b>      | <b>12.229</b>                               | <b>275</b>                                      | <b>583</b>  | <b>4.59</b>                   | <b>9.50</b>                       | <b>2</b>                  | <b>1</b> |

|           |                  |             |                    |           |          |
|-----------|------------------|-------------|--------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HH0604</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|--------------------|-----------|----------|