

# TECO Westinghouse

|                           |                                                           |                            |
|---------------------------|-----------------------------------------------------------|----------------------------|
| ISSUED<br><b>2/3/2017</b> | <b>PERFORMANCE DATA</b><br><b>3-PHASE INDUCTION MOTOR</b> | ENCLOSURE<br><b>TEFC</b>   |
| TYPE<br><b>AEHH8NJP</b>   |                                                           | CATALOG#<br><b>JPP0156</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>6</b> | <b>284T</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>0.0019~15</b> | <b>60~1200</b> | <b>0.166~67.03</b> | <b>0.2865</b>                                                              | <b>0.3834</b> | <b>1.2081</b> | <b>2.3238</b> | <b>39.197</b>  |

|                 |               |                 |                   |                     |           |                  |                    |
|-----------------|---------------|-----------------|-------------------|---------------------|-----------|------------------|--------------------|
| CONSTANT TORQUE |               |                 |                   | CONSTANT HORSEPOWER |           |                  |                    |
| HZ              | HP            | RPM             | TORQUE<br>(lb-ft) | HZ                  | HP        | RPM              | TORQUE<br>(lb-ft)  |
| <b>6~60</b>     | <b>1.5~15</b> | <b>120~1200</b> | <b>67.03</b>      | <b>60~90</b>        | <b>15</b> | <b>1200~1800</b> | <b>67.03~44.69</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.% |               |               |                |               |               |                                            |
| 1175                | 91         | 92.4  | 93            | 93            | 83.5           | 79.5          | 70.5          | 64                                         |

| 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 |                               |                                  |     |
| 11.50             | 13.14             | 6.57              | 40.25             | 36.40             | 18.20             | 209.8             | 232.0             | 116               | G                             | 29                               | 20  |

| 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>67.03</b>      | <b>215</b>        | <b>180</b>   | <b>230</b>      | <b>6.823</b>                                | <b>200</b>                                      | <b>497</b>                                          | <b>5.79</b>                   | <b>14.10</b>                      | <b>2</b>                  | <b>1</b> |

|           |                  |             |                     |           |          |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057JPP0156</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|---------------------|-----------|----------|