

# 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>AEUH8NDC</b>    |                                                           | CATALOG#<br><b>EPV0036C</b> |

## NAMEPLATE INFORMATION

| OUTPUT   |            | POLE     | FRAME SIZE   | VOLTAGE        | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|----------|------------|----------|--------------|----------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP       | KW         |          |              |                |           |               |            |             |              |                |
| <b>3</b> | <b>2.2</b> | <b>6</b> | <b>213TC</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>0.0004~3</b> | <b>60~1200</b> | <b>0.035~13.41</b> | <b>1.6662</b>                                                              | <b>2.8842</b> | <b>5.7461</b> | <b>7.5294</b> | <b>121.57</b>  |

|                 |             |                 |                   |                     |          |                  |                    |
|-----------------|-------------|-----------------|-------------------|---------------------|----------|------------------|--------------------|
| CONSTANT TORQUE |             |                 |                   | CONSTANT HORSEPOWER |          |                  |                    |
| HZ              | HP          | RPM             | TORQUE<br>(lb-ft) | HZ                  | HP       | RPM              | TORQUE<br>(lb-ft)  |
| <b>6~60</b>     | <b>.3~3</b> | <b>120~1200</b> | <b>13.41</b>      | <b>60~120</b>       | <b>3</b> | <b>1200~2400</b> | <b>13.41~6.705</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                | 87.5       | 89.5  | 89.5          | 87.5          | 78             | 70.5          | 85.5          | 54                                         |

| 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 |                               |                                  |     |
| 3.73              | 4.18              | 2.09              | 8.89              | 8.04              | 4.02              | 57.9              | 64.0              | 32                | K                             | 88                               | 62  |

| 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>13.41</b>      | <b>210</b>        | <b>180</b>   | <b>340</b>      | <b>0.918</b>                                | <b>44</b>                                       | <b>378</b>                                          | <b>4.98</b>                   | <b>42.00</b>                      | <b>2</b>                  | <b>1</b> |

|           |                  |             |                      |           |          |
|-----------|------------------|-------------|----------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057EPV0036C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|----------------------|-----------|----------|