

# 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>HBV0754C</b> |

## NAMEPLATE INFORMATION

| OUTPUT    |             | POLE     | FRAME SIZE   | VOLTAGE    | HZ        | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING  | SERVICE FACTOR |
|-----------|-------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP        | KW          |          |              |            |           |               |            |             |              |                |
| <b>75</b> | <b>56.0</b> | <b>4</b> | <b>365TC</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<br>(lb-ft)  | R1                                                                         | R2            | X1            | X2            | X <sub>m</sub> |
| <b>3~60</b>     | <b>0.009~75</b> | <b>90~1800</b> | <b>0.525~221.8</b> | <b>0.0296</b>                                                              | <b>0.0666</b> | <b>0.2316</b> | <b>0.4277</b> | <b>10.003</b>  |

|                 |               |                 |                   |                     |           |                  |                    |
|-----------------|---------------|-----------------|-------------------|---------------------|-----------|------------------|--------------------|
| CONSTANT TORQUE |               |                 |                   | CONSTANT HORSEPOWER |           |                  |                    |
| HZ              | HP            | RPM             | TORQUE<br>(lb-ft) | HZ                  | HP        | RPM              | TORQUE<br>(lb-ft)  |
| <b>6~60</b>     | <b>7.5~75</b> | <b>180~1800</b> | <b>221.8</b>      | <b>60~90</b>        | <b>75</b> | <b>1800~2700</b> | <b>221.8~147.9</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.% |               |               |                |               |               |                                            |
| 1775                | 94.5       | 95.4  | 95.4          | 95            | 86.5           | 83.5          | 75.5          | 79                                         |

| 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>460<br>VOLT | AT<br>460<br>VOLT | AT<br>460<br>VOLT |                               |                                  |     |
| 26                | 85.10             | 543               | G                             | 17                               | 12  |

| 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>221.90</b>     | <b>200</b>        | <b>165</b>   | <b>250</b>      | <b>14.674</b>                               | <b>338</b>                                      | <b>618</b>                                          | <b>4.40</b>                   | <b>7.89</b>                       | <b>2</b>                  | <b>1</b> |

|           |                  |             |                      |           |          |
|-----------|------------------|-------------|----------------------|-----------|----------|
| APPROVED: | <b>M. PRATER</b> | DRAWING NO. | <b>31057HBV0754C</b> | REVISION: | <b>1</b> |
|-----------|------------------|-------------|----------------------|-----------|----------|