

DATE
January 20, 2009
CAT. #: HB0756C

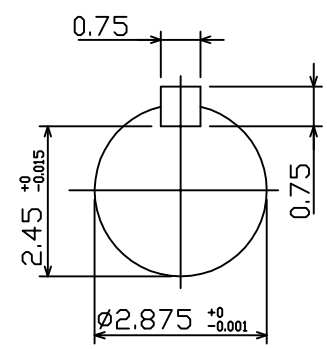
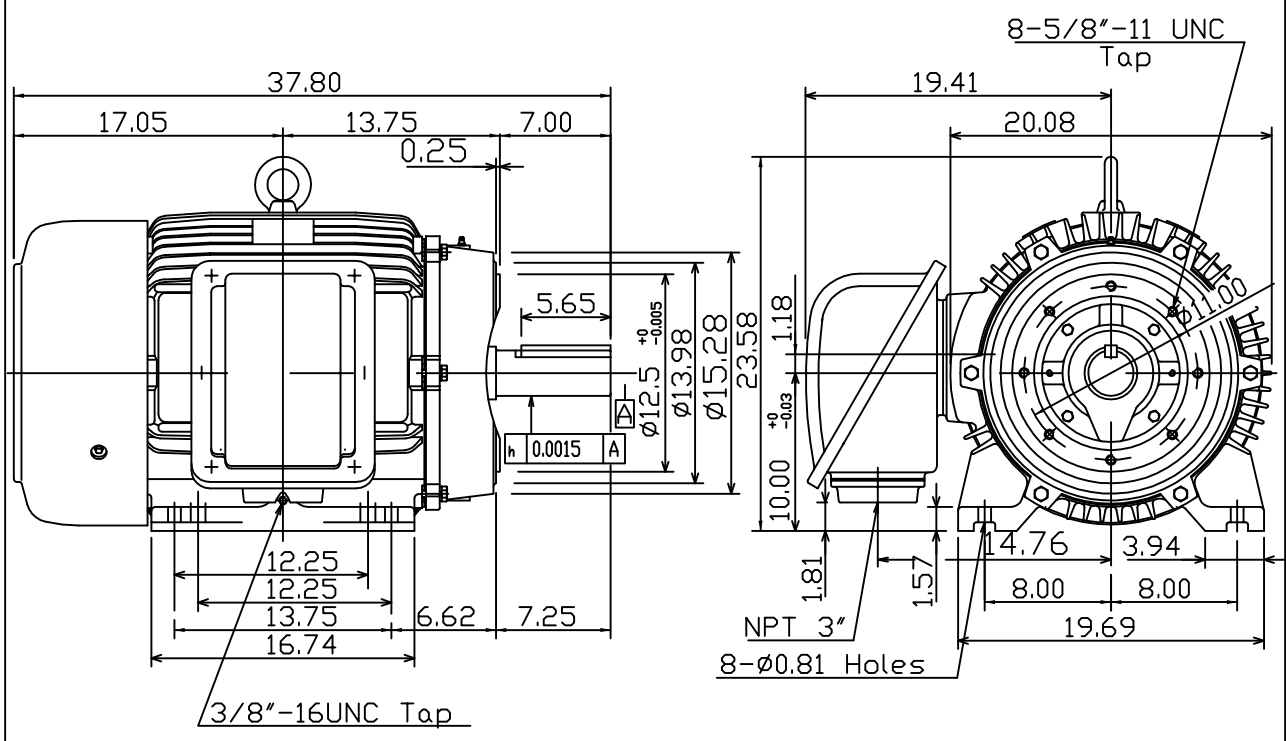
OUTLINE DIMENSIONS
3-PHASE INDUCTION MOTOR

MOTOR TYPE:
AEHH8B-CF
FRAME NO. 405TC

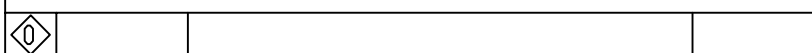
| Pole | HP | kW | Hz | VOLT | Syn.Speed r/min(rpm) |
|------|----|----|----|------|-------------------------|
| 6 | 75 | 56 | 60 | 460 | 1200 |

| Ins | Rating | Dimension in | Approx Weight | Bearings |
|-----|--------|--------------|---------------|-------------------------|
| F | CONT. | inches | 1310 LBS | DE: 6317C3 NDE: 6313ZC3 |

Totally Enclosed Fan Cooled Type. Squirrel-cage Rotor.



- Note:
1. Motor Vibration:20?
 2. Inpro/Seal in Both End Brackets



| | | | | |
|-------|----------|----------|--|--------------|
| DWN. | K.L.KUD | 01-19-05 | | DWG NO. |
| CHKD. | C.H.KAD | 02-01-05 | | 31049M634660 |
| APPD. | M.C.TSAI | 02-01-05 | | |

TECO Westinghouse

| | | |
|----------------------------|---|----------------------------|
| ISSUED 8/28/2014 | PERFORMANCE DATA 3-PHASE INDUCTION MOTOR | ENCLOSURE TEFC |
| TYPE AEHH8BCF | | CATALOG# HB0756C |

NAMEPLATE INFORMATION

| OUTPUT | | POLE | FRAME SIZE | VOLTAGE | HZ | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING | SERVICE FACTOR |
|-----------|-------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP | KW | | | | | | | | | |
| 75 | 56.0 | 6 | 405TC | 460 | 60 | 50°C | F | B | CONT. | 1.15 |

VARIABLE FREQUENCY DRIVE SERVICE

| | | | | | | | | |
|-----------------|-----------------|----------------|--------------------|--|---------------|---------------|---------------|----------------|
| VARIABLE TORQUE | | | | OHMS/PHASE EQUIVALENT WYE CIRCUIT (AT RATED OPERATING TEMPERATURE 25°C) | | | | |
| HZ | HP | RPM | TORQUE (lb-ft) | R1 | R2 | X1 | X2 | X _m |
| 3~60 | 0.009~75 | 60~1200 | 0.788~333.7 | 0.0413 | 0.0839 | 0.2687 | 0.4559 | 11.509 |

| CONSTANT TORQUE | | | | CONSTANT HORSEPOWER | | | |
|-----------------|---------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ | HP | RPM | TORQUE (lb-ft) | HZ | HP | RPM | TORQUE (lb-ft) |
| 6~60 | 7.5~75 | 120~1200 | 333.7 | 60~90 | 75 | 1200~1800 | 333.7~222.5 |

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.% | | | | | | |
| 1180 | 93.6 | 94.5 | 94.5 | 94.5 | 86.5 | 84.5 | 79 | 78 |

| 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 | | | |
| 22.6 | 85.90 | 543 | G | 30 | 21 |

| TORQUE | | | | INERTIA | | | ACCEL TIME (DOL) | | ALLOWABLE STARTS PER HOUR | |
|-------------------|-------------------|--------------|-----------------|---|---|---|-------------------------------|-----------------------------------|---------------------------|----------|
| FULL LOAD (lb-ft) | LOCKED ROTOR %FLT | PULL UP %FLT | BREAK DOWN %FLT | ROTOR WR ² (lb-ft ²) | NEMA LOAD WK ² (lb-ft ²) | MAX ALLOWABLE WK ² (lb-ft ²) | NEMA LOAD WK ² Sec | MAX ALLOWABLE WK ² Sec | COLD | HOT |
| 333.70 | 200 | 175 | 225 | 37.862 | 904 | 2050 | 5.52 | 12.24 | 2 | 1 |

| | | | | | |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | M. PRATER | DRAWING NO. | 31057HB0756C | REVISION: | 1 |
|-----------|------------------|-------------|---------------------|-----------|----------|

DATE:
June 27, 2005

CONNECTION DIAGRAM

CATALOG NO.:
HB0756C



SCHEMATIC - Δ CONNECTION

ACROSS THE LINE CONNECTION



460 VOLT CONNECTION