

| TYPE | OUTPUT | | POLE | TIME RATING | VOLTAGE V | Hz | SYN.SPEED R.P.M |
|--------|--------|-------|------|-------------|-----------|----|-----------------|
| | HP. | KW. | | | | | |
| AEHH8N | 250 | 186.5 | 4 | CONT. | 575 | 60 | 1800 |

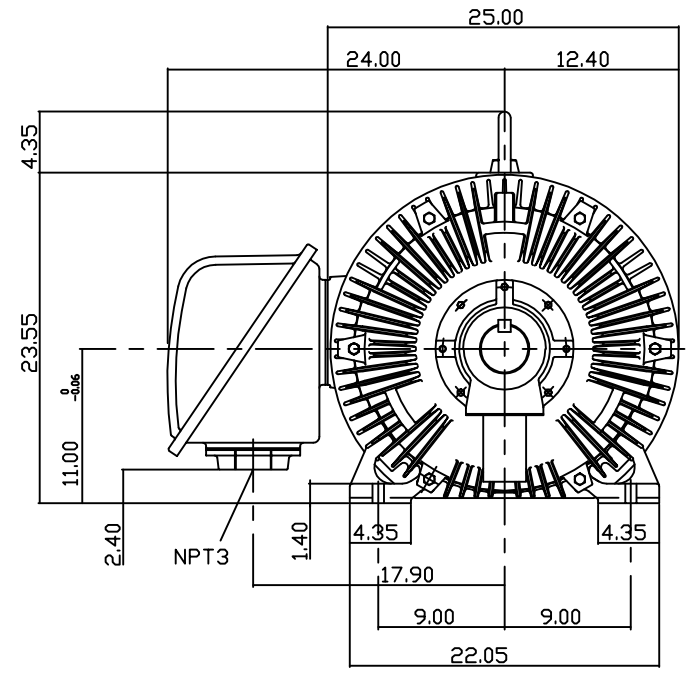
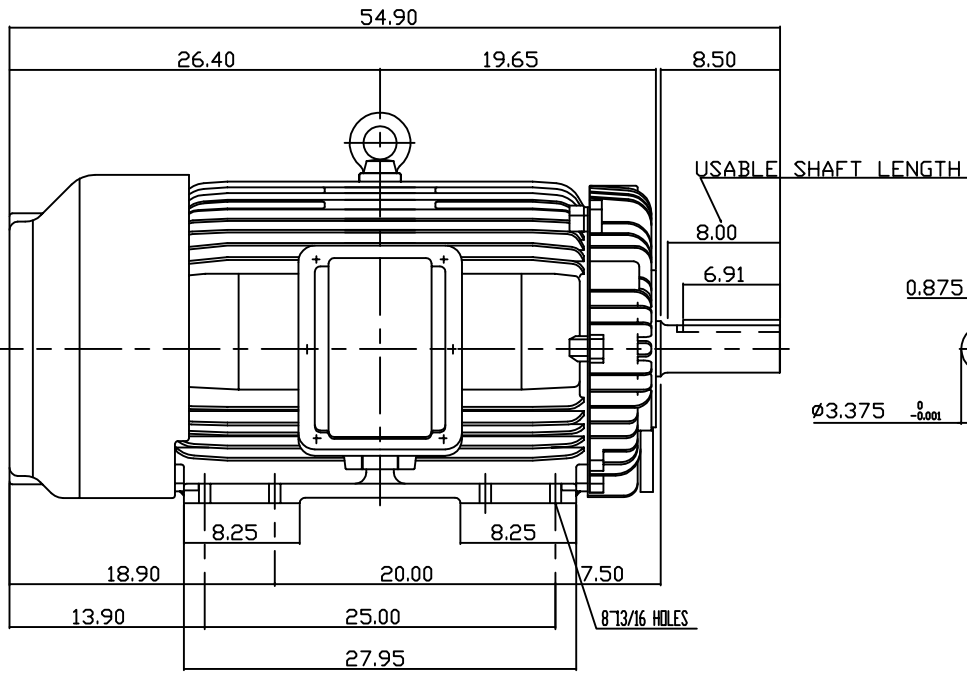
TOTALLY ENCLOSED FAN-COOLED TYPE, SQUIRREL-CAGE ROTOR

D

C

B

A



D

C

B

A

NOTE:

1. DIMENSIONS IN INCH
2. FRAME NO. 449T
3. F CLASS INSULATION, S.F.1.15
4. FOR DIRECT FLEXIBLE COUPLING
5. ENCLOSURE: IP54
6. BEARING SIZE: DRIVE END: 6320
NON-DRIVE END: 6316
7. APPROX. WEIGHT: 3450 LBS

TW-56C

| | | |
|-------------------|-------------------------|--|
| DATE 20050616 | OUTLINE DIMENSIONS | |
| CATALOG #EP25045 | 3-PHASE INDUCTION MOTOR | |
| DWG NO. 3A040Y647 | REV: 00 | |

| | | |
|-------|---------|-------------|
| DWN. | J.WANG | JAN 28 2005 |
| CHKD. | H.HUANG | JAN 28 2005 |
| APPD. | C.WANG | JAN 28 2005 |



6

5

4

3

2

1

TECO Westinghouse

| | | |
|----------------------------|---|----------------------------|
| ISSUED 7/14/2008 | PERFORMANCE DATA 3-PHASE INDUCTION MOTOR | ENCLOSURE TEFC |
| TYPE AEHH8N | | CATALOG# EP25045 |

NAMEPLATE INFORMATION

| OUTPUT | | POLE | FRAME SIZE | VOLTAGE | HZ | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING | SERVICE FACTOR |
|------------|--------------|----------|-------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP | KW | | | | | | | | | |
| 250 | 186.5 | 4 | 449T | 575 | 60 | 40°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 | 0.0313~250 | 90~1800 | 1.826~734 | 0.0179 | 0.018 | 0.76 | 0.3753 | 9.6 |

| CONSTANT TORQUE | | | | CONSTANT HORSEPOWER | | | |
|-----------------|---------------|-----------------|-------------------|---------------------|------------|------------------|-------------------|
| HZ | HP | RPM | TORQUE (lb-ft) | HZ | HP | RPM | TORQUE (lb-ft) |
| 6~60 | 25~250 | 180~1800 | 734 | 60~90 | 250 | 1800~2700 | 734~489.33 |

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.% | | | | | | |
| 1787 | 95.4 | 96.2 | 95.8 | 95 | 85.5 | 83.5 | 80 | 81 |

| CURRENTS | | | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS | |
|--------------|-------------|--------------|----------------------|----------------------------|-----------|
| NO LOAD | FULL LOAD | LOCKED ROTOR | | COLD | HOT |
| AT 575 VOLT | AT 575 VOLT | AT 575 VOLT | | | |
| 43.04 | 228 | 1460 | G | 19 | 13 |

| 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 |
| 734.00 | 110 | 90 | 210 | 83 | 1017 | 2034 | 5.49 | 10.57 | 2 | 1 |

| | | | | | |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | M. PRATER | DRAWING NO. | 31057EP25045 | REVISION: | 0 |
|-----------|------------------|-------------|---------------------|-----------|----------|

DATE:
June 27, 2005

CONNECTION DIAGRAM

CATALOG NO.:
EP25045



SCHEMATIC - Δ CONNECTION

ACROSS THE LINE CONNECTION



575 VOLT CONNECTION