



UNITS: INCHES

| FRAME SIZE  | MOTOR DIMENSIONS |      |      |       |     |     |     |      |      |      |     | CONDUIT BOX |      |      |       |     |     |     |
|-------------|------------------|------|------|-------|-----|-----|-----|------|------|------|-----|-------------|------|------|-------|-----|-----|-----|
|             | A                | B    | C    | D     | G   | J   | K   | M    | O    | P    | T   | AA          | AB   | AC   | AE    | AF  | XL  | XN  |
| 404TS/405TS | 19.2             | 17.7 | 49.8 | 10.00 | 1.4 | 4.0 | 5.9 | 14.7 | 19.5 | 20.5 | 2.8 | 3.00        | 16.0 | 13.3 | 10.00 | 5.6 | 9.7 | 7.1 |
| 404T/405T   | 19.2             | 17.7 | 52.8 | 10.00 | 1.4 | 4.0 | 5.9 | 14.7 | 19.5 | 20.5 | 2.8 | 3.00        | 16.0 | 13.3 | 10.00 | 5.6 | 9.7 | 7.1 |

| FRAME SIZE  | MOUNTING |             |      | SHAFT EXTENSION |      |      |       | KEY SEAT |       |      | BEARINGS |        | MAXIMUM WEIGHT |
|-------------|----------|-------------|------|-----------------|------|------|-------|----------|-------|------|----------|--------|----------------|
|             | E        | 2F          | H    | BA              | N-W  | V    | U     | R        | S     | ES   | LS       | OS     |                |
| 404TS/405TS | 8.00     | 12.25/13.75 | 0.81 | 6.62            | 4.25 | 4.00 | 2.125 | 1.845    | 0.500 | 2.75 | 6313C3   | 6313C3 | 1380 lbs.      |
| 404T/405T   | 8.00     | 12.25/13.75 | 0.81 | 6.62            | 7.25 | 7.00 | 2.875 | 2.450    | 0.750 | 5.62 | 6317C3   | 6313C3 |                |

- NOTES:
1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
  2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  3. KEY DIMENSIONS EQUAL S x S x 5.62 FOR T AND S x S x 2.75 FOR TS (MOTOR SUPPLIED WITH KEY)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. THIS DIMENSION EQUALS 2F FOR 404T/TS MOUNTING
  6. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: 0756BCFB31A  
 P.O. NO.: \_\_\_\_\_ HP: 75 VOLTAGE: 460 RPM(SYN.): 1200 Hz: 60  
 FRAME SIZE: 405T PRODUCT TYPE: TEBC VECTOR READY EQP III  
 COMMENTS: \_\_\_\_\_

TAG NO's: \_\_\_\_\_

- STANDARD (NO AUX. BOXES)
- RTD AUX. BOX
- SPACE HEATER AUX. BOX
- BEARING RTD's

PER: \_\_\_\_\_ DATE: \_\_\_\_\_

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE  PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED  CERTIFIED

**TOSHIBA**

TOTALLY-ENCLOSED BLOWER-COOLED  
 HORIZONTAL FOOT-MOUNTED  
 3 PHASE INDUCTION MOTOR  
 F1 ASSEMBLY

**XT SERIES**

VISIT OUR WEBSITE AT:  
[www.toshiba.com/ind](http://www.toshiba.com/ind)

TOSHIBA INTERNATIONAL CORPORATION

**TOSHIBA INTERNATIONAL CORPORATION**  
**Industrial Division / Houston Motor Plant**

**SQUIRREL CAGE INDUCTION MOTOR  
 PERFORMANCE SPECIFICATIONS**

|             |                   |
|-------------|-------------------|
| INDEX       | MPCF-1033         |
| SHEET NO.   | 1 of 1            |
| ISSUED      | 11/08/96          |
| SUPERSEDES  | 10/06/95          |
| REVISION    | 1                 |
| WRITTEN BY  | R. EVANS          |
| APPROVED BY | <i>Jay Bugbee</i> |

Customer Tag:

CUSTOMER:  
 TIC SR No.:  
 Customer PO:

**MOTOR NAMEPLATE DATA**

|                        |            |                |    |                |
|------------------------|------------|----------------|----|----------------|
| H.P.: 75               | VOLTS: 460 | 3 Ø / 60       | Hz | S. RPM: 1200   |
| FRAME: 405T            | ENCL: TEBC | FLAMPS: 91     |    | FLRPM: 1185    |
| FORM: ECKM1            | S.F.: 1.0  | NEMA DESIGN: B |    | INSUL CLASS: F |
| TYPE: TIKK             | AMB.: 40   | CODE: G        |    | DUTY: CONT.    |
| MODEL No.: 0756BCFB31A |            | kW:            |    | Serial No.:    |
| NOM. EFF.:             | MIN. EFF.: | P.F.: 80.5     |    |                |

|                                      |   |  |
|--------------------------------------|---|--|
| <b>AMPERAGE</b><br>Locked Rotor: 573 | <b>TORQUES</b><br>FULL LOAD (lb-ft.): 332<br>LOCKED ROTOR (%): 180<br>BREAK DOWN (%): 270 | <b>** BEARINGS:</b><br>Drive End: 6317C3<br>Opposite Drive End: 6313C3 |
|--------------------------------------|---|--|

|  |  |
|--|--|
| <b>EFFICIENCY (%)</b><br>FULL LOAD: 95.6<br>3/4 LOAD: 95.1<br>1/2 LOAD: 93.5 | <b>POWER FACTOR (%)</b><br>FULL LOAD: 80.5<br>3/4 LOAD: 75.8<br>1/2 LOAD: 65.7 |
|--|--|

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.

\* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12.43 OR -20.40.

\*\* BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

**CERTIFIED BY:**  
**DATE:**

**TOSHIBA**

Reliability in Motion

**TOSHIBA INTERNATIONAL CORPORATION**

INDUSTRIAL DIVISION

PO BOX 40906

HOUSTON TX 77240

(713) 466-0277

(800) 231-1412

FAX (713) 466-8773

**SPARE PARTS (RECOMMENDED)**

OTHER THAN THE GREASE USED FOR RE-GREASABLE BEARINGS, **TOSHIBA** ADVISES THAT THERE ARE NO "USE" PARTS. THE ONLY INSURANCE SPARES THAT **TOSHIBA** SUGGESTS FOR THESE SQUIRREL CAGE INDUCTION MOTORS ARE INDUSTRY STANDARD, AND COMMERCIALY AVAILABLE ANTI-FRICTION BEARINGS, AS NOTED BELOW.

MOTOR COMPONENTS (SUCH AS TERMINAL BOXES, FAN COVERS, MACHINED PARTS) ARE AVAILABLE UPON SPECIAL REQUEST. IN THIS CASE, PLEASE ADVISE OUR ORDER ENTRY DEPARTMENT THE MODEL AND SERIAL NUMBERS (FOUND ON THE MOTOR NAMEPLATE) , AND A DESCRIPTION OF THE COMPONENT REQUIRED. THEY WILL THEN FURNISH THE CURRENT PART NUMBER, PRICE AND AVAILABILITY.

(NOTE: OUR INTERNAL PART NUMBERS ARE SUBJECT TO CHANGE WITHOUT NOTICE, AND ARE NOT PUBLISHED).

PLEASE ADVISE IF YOU HAVE ANY QUESTIONS.

CUSTOMER:  
PURCHASE ORDER #  
Customer Tag:

TOSHIBA FILE #  
MODEL # 0756BCFB31A  
HP / RPM / ENCL / FRAME: 75 / 1200 / TEBC / 405T  
DRIVE END BEARING: 6317C3  
OPPOSITE DRIVE END BEARING: 6313C3

**Prepared By:**  
**Date:**

|   |
|---|
| Three Phase Motor Wiring Diagram          |
| "Across the line" (Full Voltage) Starting |



|                 |             |
|-----------------|-------------|
| Customer Name:  |             |
| PO No.:         |             |
| Customer Tag:   |             |
| TIC File No.:   |             |
| Motor Model No. | 0756BCFB31A |

For Further Information Regarding Toshiba motor starting, maintenance or wiring,  
Please refer to the "Toshiba - A Quality Product for World Energy" Installation and  
Maintenance Manual, or contact the Toshiba Low Voltage Motor Marketing Department.  
(800) 231-1412

Prepared By:   
Date: