



UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS											CONDUIT BOX DIMENSIONS						
	A	B	C	D	G	J	K	M	O	P	T	AA(NPT)	AB	AC	AE	AF	XL	XN
N447TS/N449TS	22.0	36.6	56.5	11.00	1.4	4.5	14.6	22.4	24.8	27.3	3.2	3.00	27.0	21	11.00	7.2	15.3	14.7
N447T/N449T	22.0	36.6	60.3	11.00	1.4	4.5	14.6	22.4	24.8	27.3	3.2	3.00	27.0	21	11.00	7.2	15.3	14.7

FRAME SIZE	MOUNTING				SHAFT EXTENSION			KEY SEAT			BEARINGS				MAXIMUM WEIGHT	
	E	2F	H	BA	N-W	V	U	R	S	ES	LS 2P	OS 2P	LS ROLLER 4~8P	LS BALL 4~8P		OS 4~8P
N447TS/N449TS	9.00	20.00/25.00	0.81	7.50	4.75	4.50	2.375	2.021	0.625	3.03	6313C3	6313C3	-	6318C3	6318C3	4200 lbs.
N447T/N449T	9.00	20.00/25.00	0.81	7.50	8.50	8.25	3.375	2.88	0.875	6.91	-	-	NU318C3	6318C3	6318C3	4200 lbs.

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
  - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
  - KEY DIMENSIONS EQUAL S x S x 6.88 FOR 'T' AND S x S x 3.00 FOR 'TS' (MOTOR SUPPLIED WITH KEY).
  - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.
  - STANDARD 2 POLE PRODUCT USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE.
  - STANDARD 4~8 POLE PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
  - THIS DIMENSION EQUALS 2F FOR N447 MOUNTING

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: 3504XPEB41A  
 P.O. NO.: \_\_\_\_\_ HP: 350 VOLTAGE: 230/460 RPM(SYN.): 1800 Hz: 60  
 FRAME SIZE: N449T PRODUCT TYPE: TEFC EXPLOSION PROOF; CLASS I GROUP D; CLASS II GROUPS E, F, G  
 COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 PER: \_\_\_\_\_ DATE: \_\_\_\_\_

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

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

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**  
 TOSHIBA INTERNATIONAL CORPORATION

TOTALLY-ENCLOSED FAN-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**  
**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.: 350	VOLTS: 230/460	3 Ø / 60	Hz	S. RPM: 1800
FRAME: N449T	ENCL: TEFC	FLAMPS: 388		FLRPM: 1785
FORM: FBK1XX	S.F.: 1.15	NEMA DESIGN: B		INSUL CLASS: F
TYPE: TKKH	AMB.: 40	CODE: G		DUTY: CONT.
MODEL No.: 3504XPEB41A		kW:		Serial No.:
NOM. EFF.: 96.2	MIN. EFF.: 95.8	P.F.: 87.5		

<b>AMPERAGE</b> Locked Rotor: 2478	<b>TORQUES</b> FULL LOAD (lb-ft.): 1030 LOCKED ROTOR (%): 190 BREAK DOWN (%): 265	<b>** BEARINGS:</b> Drive End: 6318C3 Opposite Drive End: 6318C3
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<b>EFFICIENCY (%)</b> FULL LOAD: 96.2 3/4 LOAD: 95.7 1/2 LOAD: 94.5	<b>POWER FACTOR (%)</b> FULL LOAD: 87.8 3/4 LOAD: 87.2 1/2 LOAD: 83.9
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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 # 3504XPEB41A  
HP / RPM / ENCL / FRAME: 350 / 1800 / TEFC / N449T  
DRIVE END BEARING: 6318C3  
OPPOSITE DRIVE END BEARING: 6318C3

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