

UNITS: INCHES

FRAME					MOTOR	DIME	SIONS						CONDUIT BOX DIMENSIONS					
SIZE	Α	В	С	D	G	J	K	М	0	Ъ	T	AA[NPT]	AB	AC	ΑE	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 MOUNTING					SHAF	T EXTE	NSION	K	EY SEA	Т			BEARINGS			MAXIMUM			
SIZE	Ε	2F	Ι	BA	N-W	٧	U	R	S	ES	LS 2P	0S 2P	LS ROLLER 4~8P	LS BALL 4~8P	OS 4~8P	WEIGHT			
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.			

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

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

1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.

+0.002 S -0.000

 $D_{-0.06}^{+0.00}$

R +0.000 -0.015

- 2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
- 3. KEY DIMENSIONS EQUAL S \times S \times 6.88 FOR 'T' AND S \times S \times 3.00 FOR 'TS' (MOTOR SUPPLIED WITH KEY).
- 4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.
- 5. STANDARD 2 POLE PRODUCT USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE.
- 6. STANDARD 4~8 POLE PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
- 7. THIS DIMENSION EQUALS 2F FOR N447 MOUNTING

PRELIMINARY

CERTIFIED

CUSTOMER: MOTOR MODEL NO.:	TAG NO's.:	
P.O. NO.: HP: VOLTAGE: RPM(SYN.): Hz: FRAME SIZE: PRODUCT TYPE: FEFC EXPLOSION PROOF; CLASS I GROUP D; CLASS II GROUPS E, F, G COMMENTS:	RTD AUX. BOX SPACE HEATER AUX. BO	
PER: DATE:	BEARING RTD's	

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



Issued Date	6/28/2024	Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 3504XPEC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
350	261	4	1785	N449T	575	60	3	310
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	96.2	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	350.00	261.0	310	96.2	87.9
¾ Load	262.50	195.7	235	95.7	87.3
½ Load	175.00	130.5	165	94.5	84.0
1/4 Load	87.50	65.2	103	90.3	70.3
No Load			70.5		5.4
Locked Rotor			1998		28.8

Torque								
Full Load	Full Load Locked Rotor Pull Up Break Down							
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
1030	195	145	265	158.12				

	Safe Stall Time(s) Cold Hot		Sound	Bearin	Approx. Motor Weight		
			Pressure	Bearing	Approx. Motor Weight		
	Oolu	1100	dB(A) @ 1M	DE	NDE	(lbs)	
	28	12	-	6318C3	6318C3	4000	

*Bearings are the only recommended spare part(s).

Motor Options: Product Family:EQP Global Explosion Proof Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.										
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0						
Engr. Date	1/10/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011						



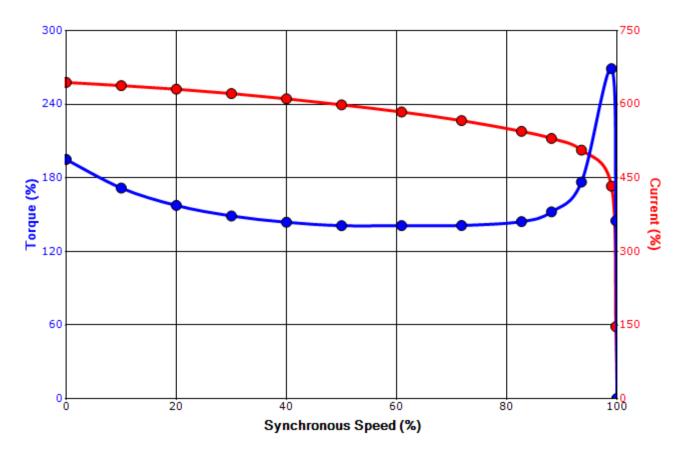
Issued Date	6/28/2024	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 3504XPEC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
350	261	4	1785	N449T	575	60	3	310
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	96.2	В		40 C
Locked Rotor	Rotor wk ²				Torque			
Amps	Inertia	Full Load	Locked	Rotor	Pull Up		Break Down	
Allips	(lb-ft²)	(lb-ft)	(%	5)	(%)		(%	6)
1998	158.12	1030	19	5	145		265	

Design Values





Customer	wk² Load Inertia (lb-ft²)	-
Customer PO	Load Type	-
Sales Order	Voltage (%)	100
Project #	Accel. Time	_

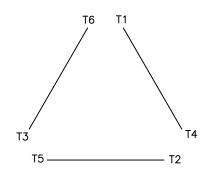
Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.						
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0	
Engr. Date	1/10/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011	

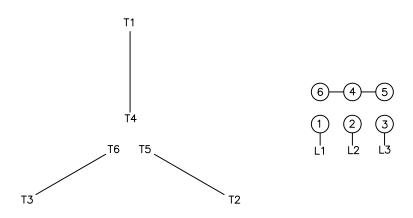
Motor Connection Diagrams 6 Leads

Across the Line Starting / Run - Delta:





Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation



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SPARE PARTS LIST*

Model: 3504XPEC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
350	261	4	1785	N449T	575	60	3	310
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	96.2	В		40 C

 Bearings DE
 6318C3 / 90BC03J3OX

 Bearings NDE
 6318C3 / 90BC03J3OX

*Bearings are the only recommended spare part(s).

Other than the grease used for regreasable bearings and the oil used for oil-lubricated 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 commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0		
Engr. Date	1/10/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		