

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.: \_\_\_\_\_  
P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ Hz: \_\_\_\_\_  
FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: TEFC EXPLOSION PROOF; CLASS I GROUP D; CLASS II GROUPS E, F, G  
COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
PER: \_\_\_\_\_ DATE: \_\_\_\_\_

TAG NO's.:  
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- ☒ 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**

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## TYPICAL MOTOR PERFORMANCE DATA

Model: 3006XPEC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
300	224	6	1187		575	60	3	297
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC		F	1.15	CONT	95.8	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	300.00	223.7	297	96.0	78.7
¾ Load	225.00	167.8	231	95.5	76.1
½ Load	150.00	111.9	173	94.1	68.8
¼ Load	75.00	55.9	127	89.5	49.2
No Load			99.7		
Locked Rotor			1554		

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1327	145	145	215	173.03

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
33	9	-	6318C3	6318C3	4000

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

**Motor Options:**  
Product Family:EQP Global Explosion Proof

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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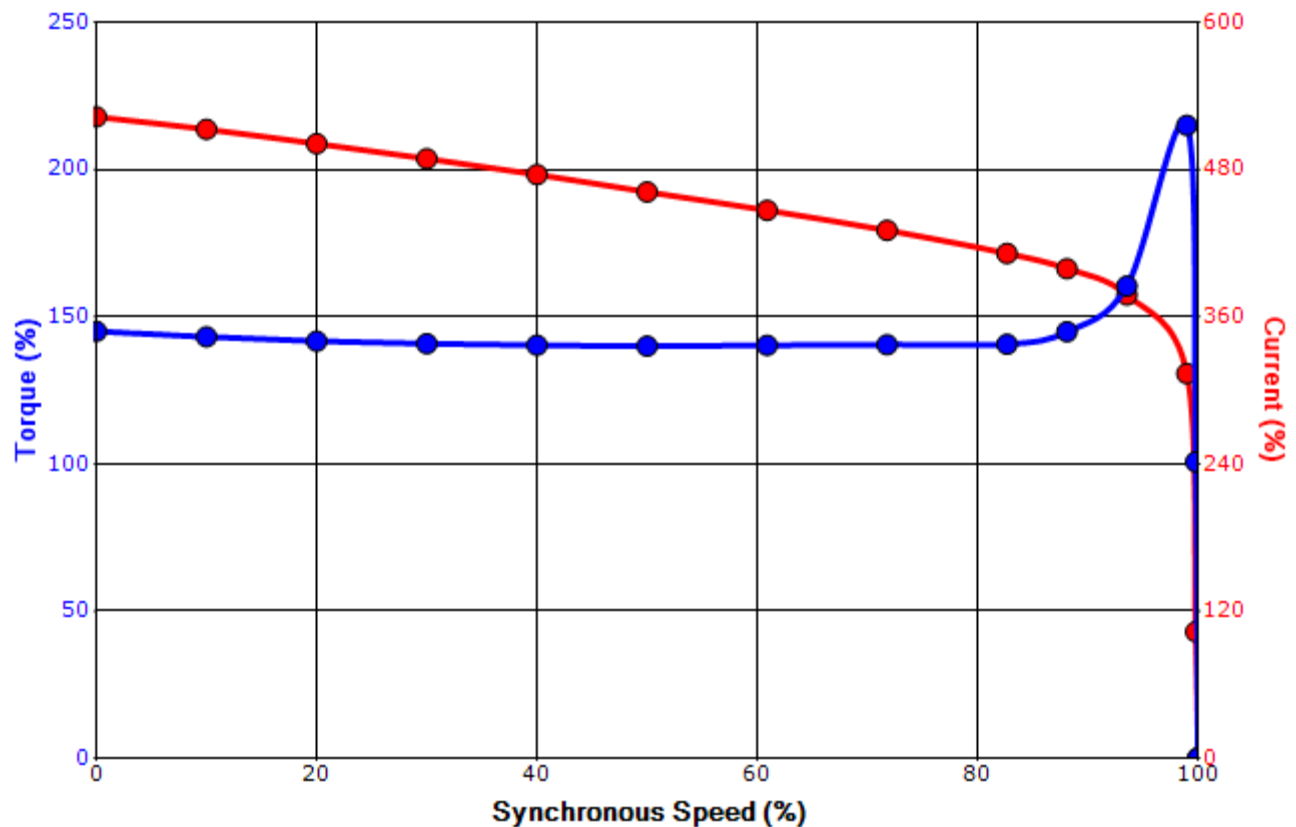
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	1/10/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

## SPEED TORQUE/CURRENT CURVE

Model: 3006XPEC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
300	224	6	1187		575	60	3	297
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC		F	1.15	CONT	95.8	B		40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)			
1554	173.03	1327	145	145	215			

### Design Values



Customer		wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> )	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

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Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
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**Motor Connection Diagrams**  
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation

## SPARE PARTS LIST\*

**Model:** 3006XPEC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
300	224	6	1187		575	60	3	297
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC		F	1.15	CONT	95.8	B		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.

<b>Customer</b>		
<b>Customer PO</b>		
<b>Sales Order</b>		
<b>Project #</b>		

**Tag:**

All characteristics are average expected values.

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<b>Engineering</b>	zxle	<b>Doc. Written By</b>	D. Suarez	<b>Doc.# / Rev</b>	MPCF-1125 / 0
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