

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS											CONDUIT BOX						
	A	B	C	D	G	J	K	M	O	P	T	MA[NPT]	AB	AC	AE	AF	XL	XN
B447T/B449T	22.0	38.9	60.5	11.00	1.4	4.5	17.7	23.3	25.1	27.9	1.3	4.00	26.5	21.8	11.00	7.6	18.5	17.1

FRAME SIZE	MOUNTING				SHAFT EXTENSION				KEY SEAT				BEARINGS		MAXIMUM WEIGHT
	E	2F	H	BA	N-W	V	U	R	S	ES	LS ROLLER	OS 4~6P	OS 4~6P	OS 4~6P	
B447T/B449T	9.00	20.00/25.00	0.81	7.50	8.50	8.25	3.375	2.880	0.875	6.91	NU322C3	6318C3	6318C3	6318C3	4500 lbs.

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
 - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
 3. "T" KEY DIMENSIONS EQUAL S x S x 6.88 (MOTOR SUPPLIED WITH KEY)
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.
 - THIS DIMENSION EQUALS 2F FOR B447T MOUNTING.
 - STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 - FRAME GROUND BOLT STANDARD.

CUSTOMER: _____ MOTOR MODEL NO.: _____ TAG NO's.: _____

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(STN.): _____ Hz: _____

FRAME SIZE: B447/9 PRODUCT TYPE: TEFC EDP PREMIUM EFFICIENCY QUARRY DUTY

COMMENTS: _____

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

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

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: 3506QDSB41A-RF

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
350	261	6	1190	B449T	460	60	3	432
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.8	A		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	350.00	261.0	431	95.8	79.3
¾ Load	262.50	195.7	340	95.2	75.9
½ Load	175.00	130.5	258	93.8	67.5
¼ Load	87.50	65.2	196	89.1	46.8
No Load			184.0		
Locked Rotor			2997		

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1545	245	195	270	214.13

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
25	10	80	NU322C3	6318C3	

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

Motor Options:
Product Family:Quarry
Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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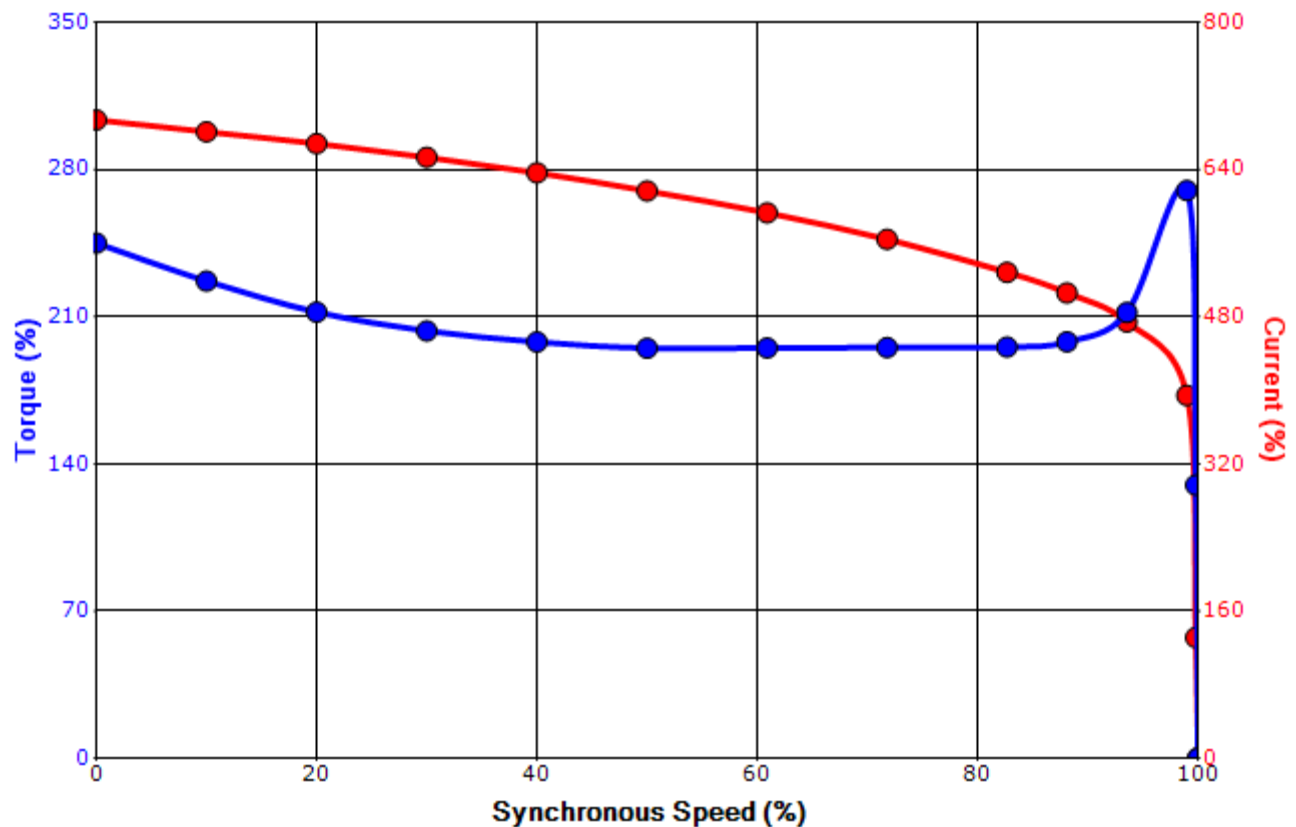
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	8/9/2023	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 3506QDSB41A-RF

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
350	261	6	1190	B449T	460	60	3	432
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.8	A		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)			
2997	214.13	1545	245	195	270			

Design Values



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

Tag:

All characteristics are average expected values.

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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: 3506QDSB41A-RF

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
350	261	6	1190	B449T	460	60	3	432
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.8	A		40 C

Bearings DE NU322C3 / 110RU03M3OX

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.

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