

UNITS: INCHES

Γ	FRAME					MOTO	OR DIM	ENSION	IS						CC	DNDUIT	BOX		
L	SIZE	Α	В	O	D	G	7	K	М	0	Р	Т	AA[NPT]	AB	AC	AE	AF	XL	XN
	S447T/S449T	22.0	34.0	55.5	11.00	1.4	4.5	15.3	20.8	25.0	27.9	1.3	4.00	23.8	19.6	11.00	9.1	15.2	10.2

ſ	FRAME	MOUNTING				SHA	HAFT EXTENSION KEY SEAT BEARINGS						MAXIMUM			
L	SIZE	E	2F	Ι	BA	N-W	٧	U	R	S	ES	LS ROLLER	LS BALL 6/8P	LS BALL 4P	OS 4~8P	WEIGHT
	S447T/S449T	9.00	20.00/25.00	0.82	7.50	8.50	8.25	3.375	2.880	0.875	6.91	NU322C3	6322C3	6318C3	6318C3	XXX Ib

- OF STRAIGHT PART OF SHAFT
- 2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
- 3. KEY DIMENSIONS EQUAL S x S x 6.88 (MOTOR SUPPLIED WITH KEY)
- 4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
- 5. THIS DIMENSION EQUALS 2F FOR S447T MOUNTING
- 6. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
- 7. FRAME GROUND BOLT STANDARD ON 841 PRODUCT

CUSTOMER: MOTOR MODEL NO.:	TAG NO's.:	
P.O. NO.: HP: VOLTAGE: RPM(SYN.): Hz: FRAME SIZE: PRODUCT TYPE: TEFC_ EQP_ III SD & 841 COMMENTS:	: : : : :	
PER: DATE:	:	

PRELIMINARY 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 **CERTIFIED**

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	8/21/2020	Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 2504XDSC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	4	1785	S449T	575	60	3	225.99
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	96.2	В	E	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	250	186.4	225.9	95.9	86.3
¾ Load	187.50	139.8	171.3	95.3	86.0
½ Load	125.00	93.2	120.3	93.6	83.1
¼ Load	62.50	46.6	75.0	88.6	70.4
No Load			56.2		5.3
Locked Rotor			1243.8		25.6

	Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia					
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)					
736	145	125	225	128.84					

t	Safe Stall	Safe Stall Time(s)		Bearin	Approx. Motor Weight	
	Cold	Hot	Pressure dB(A) @ 1M			
L			UD(A) (& TW	DE	NDE	(lbs)
	35	15	-	6318C3	6318C3	

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

Motor Options: Product Family:EQP Global 841 Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	Ì
Sales Order	Ì
Project #	Ì

Tag:

All characteristics are average expected values.

	g												
	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.												
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1								
Engr. Date	7/28/2020	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019								



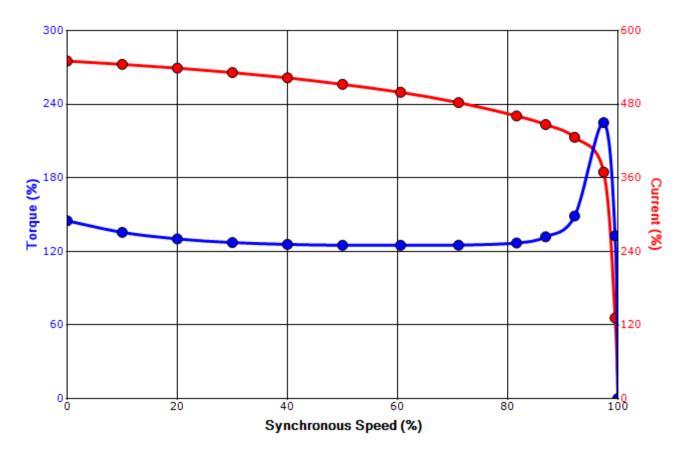
Issued Date	8/21/2020	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 2504XDSC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	4	1785	S449T	575	60	3	225.99
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	96.2	В	E	40 C
Looked Beton	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up)	Break	Down
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	%)
1243.8	128.84	736	145		125		225	

Design Values





Customer	wk² Load Inertia (lb-f	-
Customer PO	Load Ty	e -
Sales Order	Voltage (6) 100
Project #	Accel. Tir	ne -

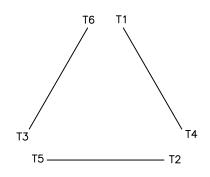
Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.						
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1	
Engr. Date	7/28/2020	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019	

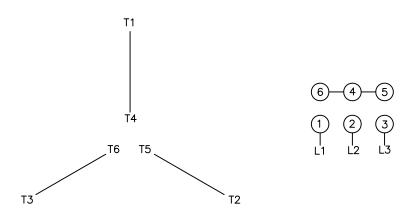
Motor Connection Diagrams 6 Leads

Across the Line Starting / Run - Delta:





Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation



Issued Date 8/21/2020		Transmit #	
Issued By	dschoeck	Issued Rev	

SPARE PARTS LIST*

Model: 2504XDSC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	4	1785	S449T	575	60	3	225.99
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	96.2	В	E	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 / 1		
Engr. Date	7/28/2020	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019		