

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS										
	A	B	C	D	G	J	K	M	O	P	T
B447TS/B449TS	22.0	38.9	56.8	11.00	1.4	4.5	17.7	23.3	25.1	27.9	1.3
B447T/B449T	22.0	38.9	60.5	11.00	1.4	4.5	17.7	23.3	25.1	27.9	1.3

FRAME SIZE	CONDUIT BOX											
	AA[NPT]	AB ₁	AB ₂	AC ₁	AC ₂	AE	AF ₁	AF ₂	XL ₁	XL ₂	XN ₁	XN ₂
B447/9T - B447/9TS	4.00	29.8	23.8	22.4	19.6	11.00	9.6	9.1	23.4	15.2	14.2	10.2

FRAME SIZE	MOUNTING				SHAFT EXTENSION				KEY SEAT				BEARINGS				MAXIMUM WEIGHT
	E	2F	H	BA	N-W	V	U	R	S	ES	LS ROLLER	LS BALL 6/8P	LS BALL 4P	OS 4-8P			
B447TS/B449TS	9.00	20.00/25.00	0.81	7.50	4.75	4.50	2.375	2.021	0.625	3.03	-	6318C3	6318C3	6318C3	4500 lbs.		
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	6322C3	6318C3	6318C3	4500 lbs.		

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

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

FRAME SIZE: _____ PRODUCT TYPE: IEC EQP III SD & 841

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

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
 - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
 - *TS* KEY DIMENSIONS EQUAL S x S x 3.00 (*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 ON 841 PRODUCT.
 - ONLY FOR 400HP/4 POLE/460V & 350HP/6 POLE/460V MOTORS.

TOSHIBA

TOTALLY-ENCLOSED FAN-COOLED
HORIZONTAL FOOT-MOUNTED
3 PHASE INDUCTION MOTOR
F1 ASSEMBLY

XT SERIES

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TOSHIBA INTERNATIONAL CORPORATION

TYPICAL MOTOR PERFORMANCE DATA

Model: 2508SDSB41A-R

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	8	890	B449T	460	60	3	315
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.0	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	250.00	186.4	315	95.2	78.0
¾ Load	187.50	139.8	248	94.8	74.5
½ Load	125.00	93.2	189	93.7	65.8
¼ Load	62.50	46.6	127	89.9	51.0
No Load			136.2		2.9
Locked Rotor			1825		22.6

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1475	145	125	250	278.49

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	12	80	NU322C3	6318C3	

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

Motor Options:
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	7/28/2020	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

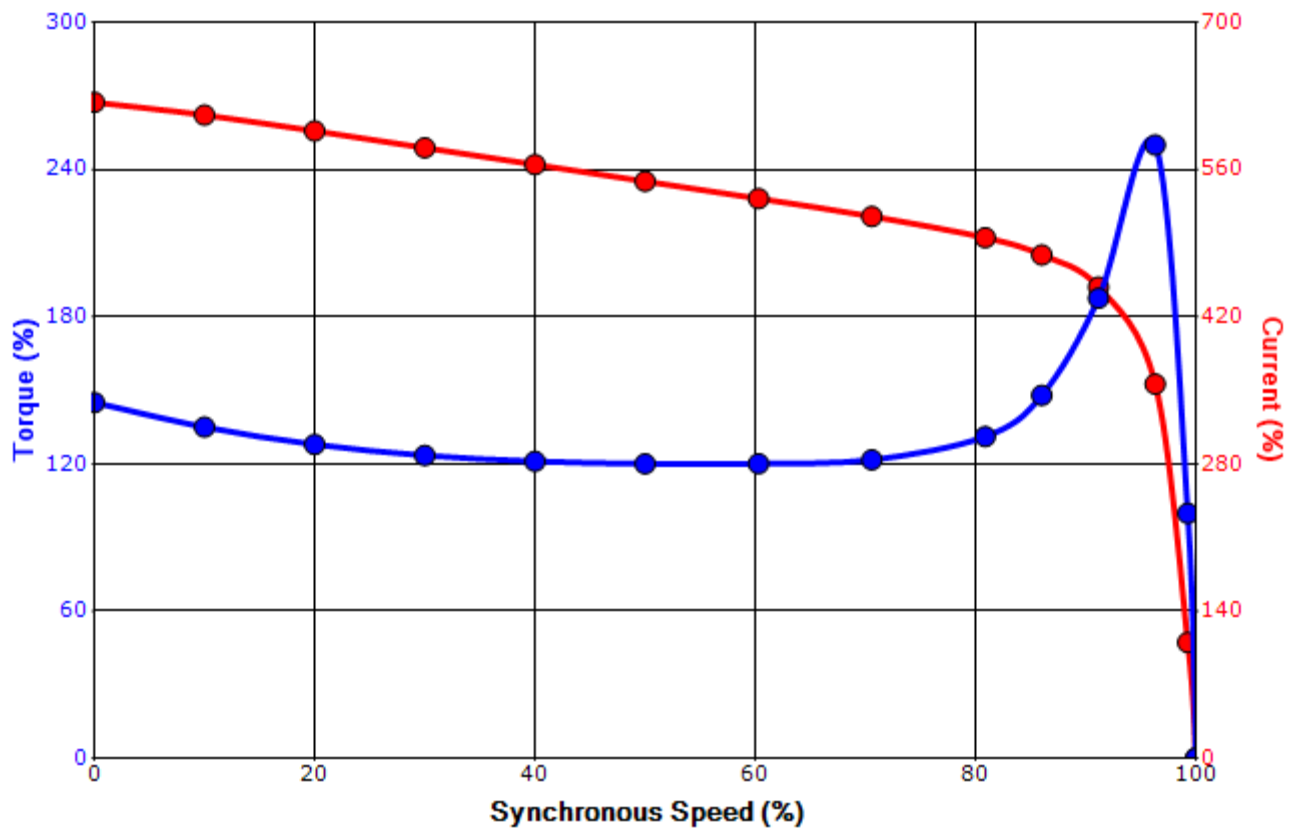
Issued Date	7/19/2021	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 2508SDSB41A-R

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	8	890	B449T	460	60	3	315
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.0	B		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)			
1825	278.49	1475	145	125	250			

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.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	7/28/2020	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