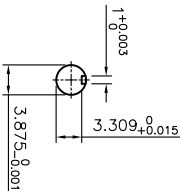
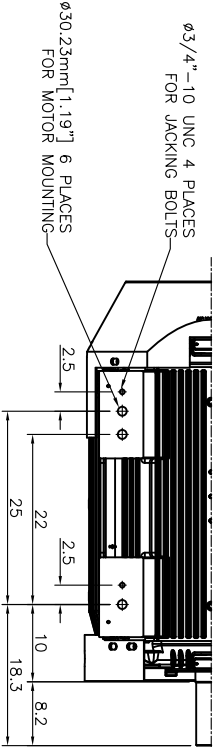
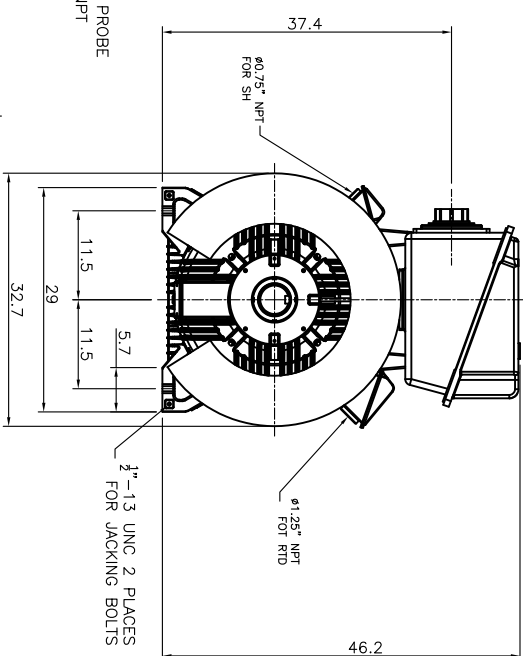
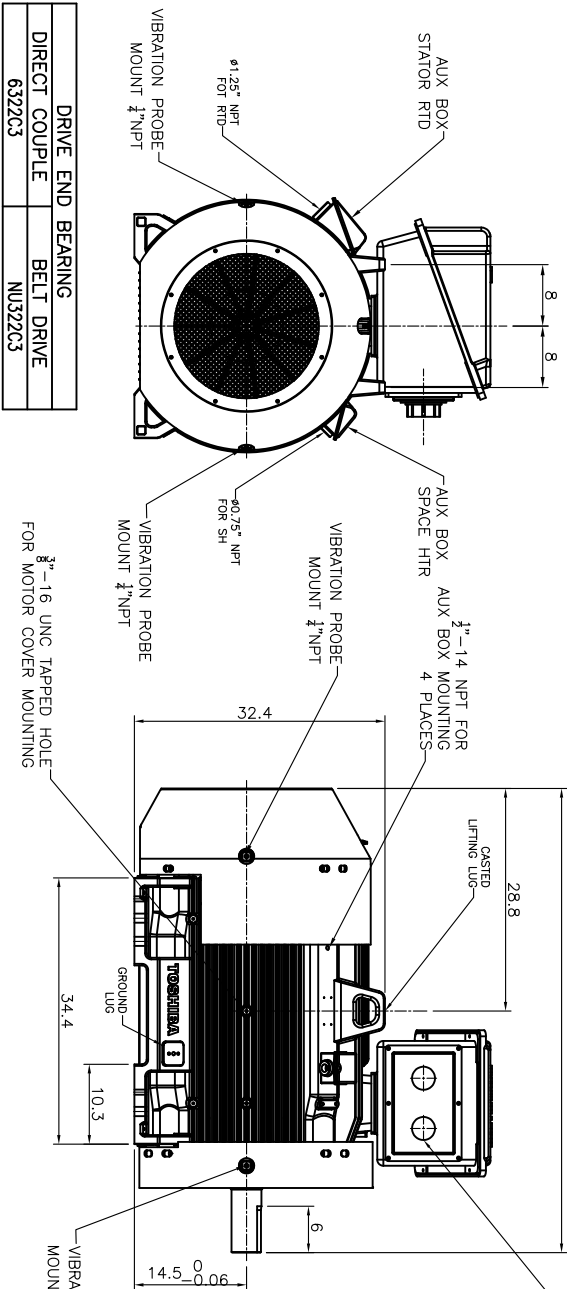


DRIVE END BEARING	BELT DRIVE
DIRECT COUPLE	NU322C3
6322C3	



TECHNICAL INFORMATION

1. BEARING LUBRICATION DE: POLY REX EM ODE: POLY REX EM
2. BEARING TYPE DE: SEE TABLE ODE: 6320C3
3. WINDING TEMP. DETECTORS NUMBER AND TYPE: 6xRTD(Pt100C-100ohm) LOCATION: IN STATOR SLOT
4. BEARING TEMP. DETECTORS NUMBER AND TYPE: N/A
5. SPACE HEATER 1 PHASE VOLTS: 120 WATTS: 400
6. ROTATION: CCW VIEWED FROM NON DRIVE END THIS MOTOR IS BI DIRECTIONAL
7. MOTOR PAINT COLOR: Toshiba Green
8. APPROX. WEIGHT: 6000 Lbs
9. ACCESSORIES:

TOSHIBA INTERNATIONAL CORPORATION
RESERVES THE RIGHT TO MAKE TECHNICAL
IMPROVEMENT AND DATA CHANGES WITHOUT NOTICE

UNITS:IN

DRAWING LIST				MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR			
NO.	REVISION	BY	DATE	CUSTOMER NAME	P.O. NO.	MOTOR TAG NO.	
0	FIRST ISSUE	CEC	01/25/20	MAIN TERMINAL BOX 130P-7640-01			
1	REV HP,POLE,&BRG TYPE DE AND ADD AUX TBOX PART NO	SS	11/11/20	AUX TERMINAL BOX FOR SPACE HEATER 130P-7520-50 R.T.D. 130-C7522U-51 THERMISTOR N/A			
2	DELETE PRELIMINARY NOTE	SS	04/28/22	OUTPUT HP 4.6,8 TYPE FORM INS. CLASS F RATING CONT. S587			
				TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.			
				PREPARED BY: C. Chetan	DATE: 01/25/20	CHECKED BY:	DATE: 01/25/20
						DRAWING NO.: MDSL0172-01	REV. 0

TYPICAL MOTOR PERFORMANCE DATA

Model: 4504SDAK41A-AR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	4	1785	S587T	2300/4000	60	3	109/63
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	96.1	A	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	450.00	335.6	62	96.1	80.2
¾ Load	337.50	251.7	48	95.1	78.3
½ Load	225.00	167.8	35	92.8	72.9
¼ Load	112.50	83.9	25	85.8	56.4
No Load			20.9		
Locked Rotor			410		

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1323	185	130	270	238.36

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
22	13	80	NU322C3	6320C3	

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

Motor Options:
Product Family:EQP Global SD
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.

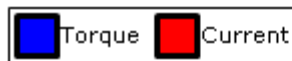
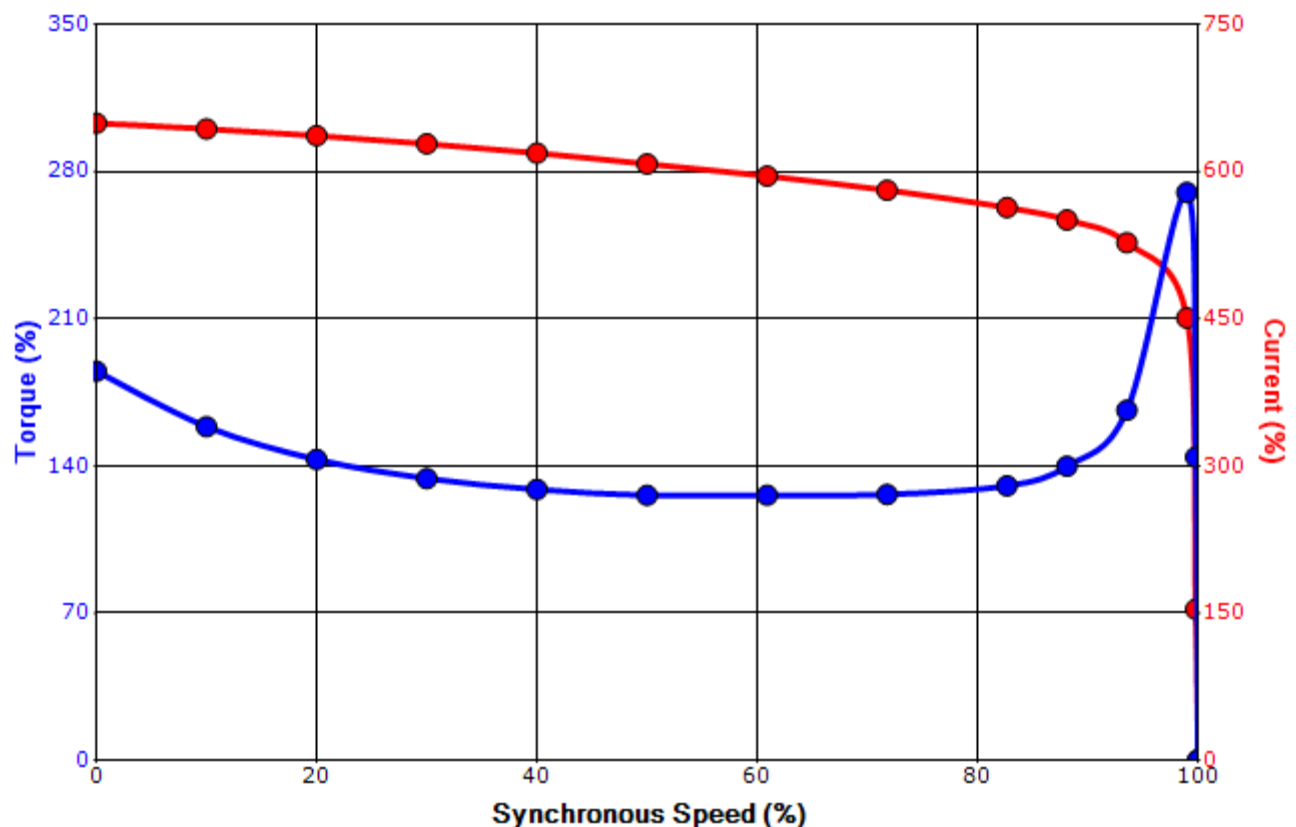
Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	6/7/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 4504SDAK41A-AR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	4	1785	S587T	2300/4000	60	3	109/63
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	96.1	A	G	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)		Break Down (%)		
410	238.36	1323	185	130		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.

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

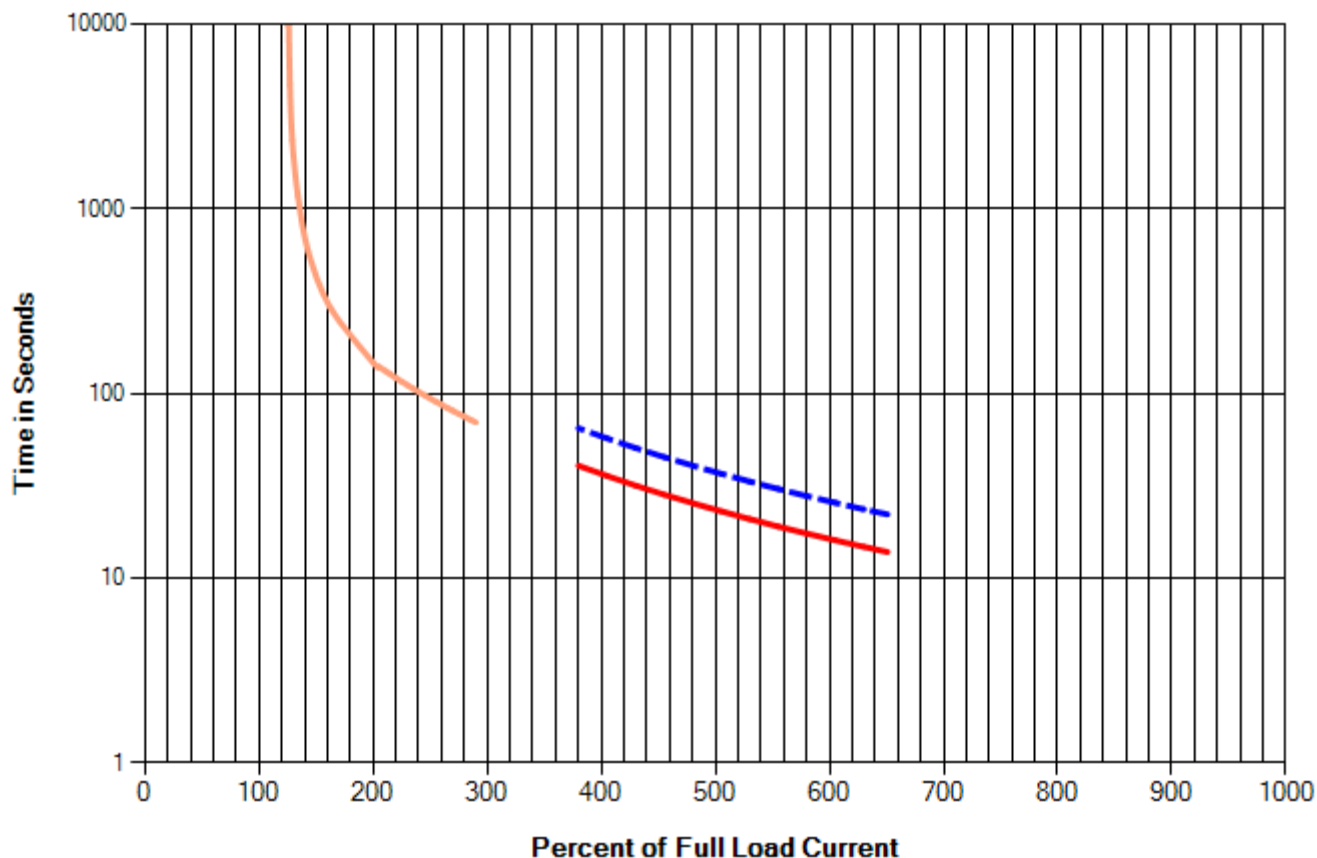
Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	6/7/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

THERMAL LIMIT CURVE

Model: 4504SDAK41A-AR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	4	1785	S587T	2300/4000	60	3	109/63
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	96.1	A	G	40 C

Thermal Limit



— Hot Stall — Cold Stall — Running Condition

Customer		wk ² Load Inertia (lb-ft ²)	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Rotor wk ² Inertia (lb-ft ²)	238.36

Tag:

All characteristics are average expected values.

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

Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1122 / 0
Engr. Date	6/7/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Issued Date	1/4/2023	Transmit #	
Issued By	dschoeck	Issued Rev	

NAMEPLATE DATA

Model: 4504SDAK41A-AR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	4	1785	S587T	2300/4000	60	3	109/63
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	96.1	A	G	40 C

Type: TIKK

Form: FCK1

Drive End Bearing: NU322C3 / 110RU03M3OX

Non-Drive End Bearing: 6320C3 / 100BC03J3OX

Power Factor: 80.2

Max Safe RPM: -

Comments 1:

Comments 2:

Comments 3:

Comments 4:



Customer		
Customer PO		
Sales Order		
Project #		

Tag:

All characteristics are average expected values.

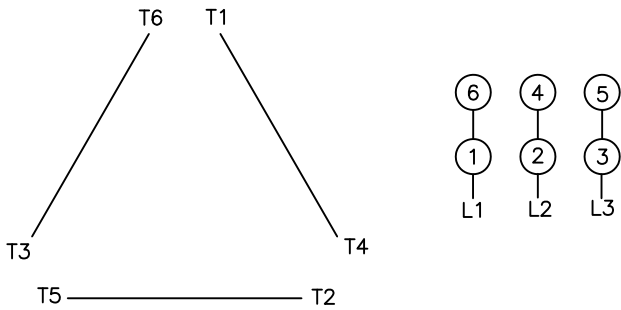
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1120 / 0
Engr. Date	6/7/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

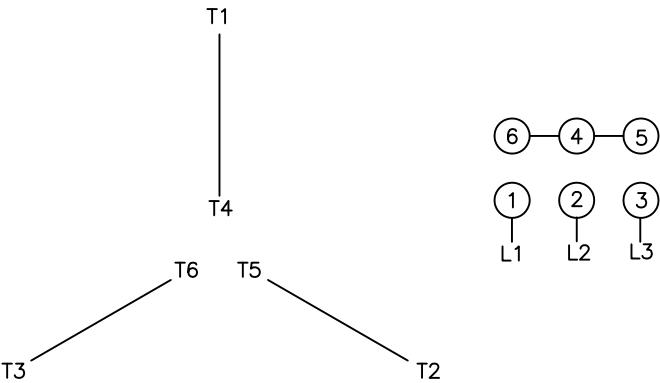
Motor Connection Diagrams
6 Leads

Across-the-Line Starting / Running Connections

Low Voltage — Delta



High Voltage — Wye



Switch L1 and L2 to reverse rotation

SPARE PARTS LIST*

Model: 4504SDAK41A-AR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	4	1785	S587T	2300/4000	60	3	109/63
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	96.1	A	G	40 C

Bearings DE	NU322C3 / 110RU03M3OX
Bearings NDE	6320C3 / 100BC03J3OX

*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	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0
Engr. Date	6/7/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011