

**TECHNICAL INFORMATION**

- BEARING LUBRICATION DE: POLYREX EM  
ODE: POLYREX EM
- BEARING TYPE DE: SEE TABLE  
ODE: 6318C3
- WINDING TEMP. DETECTORS  
NUMBER AND TYPE: 6xRTD(PtO°C-100ohm)  
LOCATION: IN STATOR SLOT
- BEARING TEMP. DETECTORS  
NUMBER AND TYPE: N/A
- SPACE HEATER 1 PHASE  
VOLTS: 120V WATTS: 240W
- ROTATION: CCW VIEWED FROM NON DRIVE END  
THIS MOTOR IS BI DIRECTIONAL
- MOTOR PAINT COLOR: GREEN
- APPROX. WEIGHT: 4000 Lbs
- ACCESORIES:

DRIVE END BEARINGS		
BELT DRIVE APP.	DIRECT COUPLE APP.	
LS 4-8P	LS 6-8P	LS 4P
NU322C3	6322C3	6318C3

DRAWING LIST	
MAIN TERMINAL BOX 130P-7622-55W	
AUX TERMINAL BOX FOR	
SPACE HEATER	130P-7520-50
R.T.D.	130P-7522-51
THERMISTOR	-

PRODUCTION #	-
UNITS:	INCHES

NO.	0	REVISION	FIRST ISSUE	BY	ME	DATE	7/24/19
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MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR						
CUSTOMER NAME			P.O. NO.		MOTOR TAG NO.	
OUTPUT HP	POLE 4-8	VOLTAGE 2.3/4k V	FREQUENCY Hz	FULL LOAD SPEED (min <sup>-1</sup> )	TOSHIBA MODEL NO.	
TYPE	FORM	INS. CLASS F	RATING CONT.	FRAME B447/9T	S.F.	ENCLOSURE TEFC
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.						
3rd ANGLE PROJ.	PREPARED BY: M.Easterbrook	DATE: 7/24/19	CHECKED BY:	DATE:	DRAWING NO.: MDSL0072-43	REV. 0



Issued Date	1/6/2020	Transmit #	
Issued By	dschoeck	Issued Rev	

### TYPICAL MOTOR PERFORMANCE DATA

Model: 3504XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
350	261	4	1790	B449T	2300/4000	60	3	89/51
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.4	B	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	350	261.0	51.1	95.5	77.1
¾ Load	262.50	195.7	40.3	94.7	74.1
½ Load	175.00	130.5	30.5	92.9	66.4
¼ Load	87.50	65.2	22.9	87.4	47.0
No Load			22.3		3.3
Locked Rotor			293		25.3

Torque				Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1027	165	135	285	186.07

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15	91	6318C3	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	Rodrigue	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1
Engr. Date	2/11/2019	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019



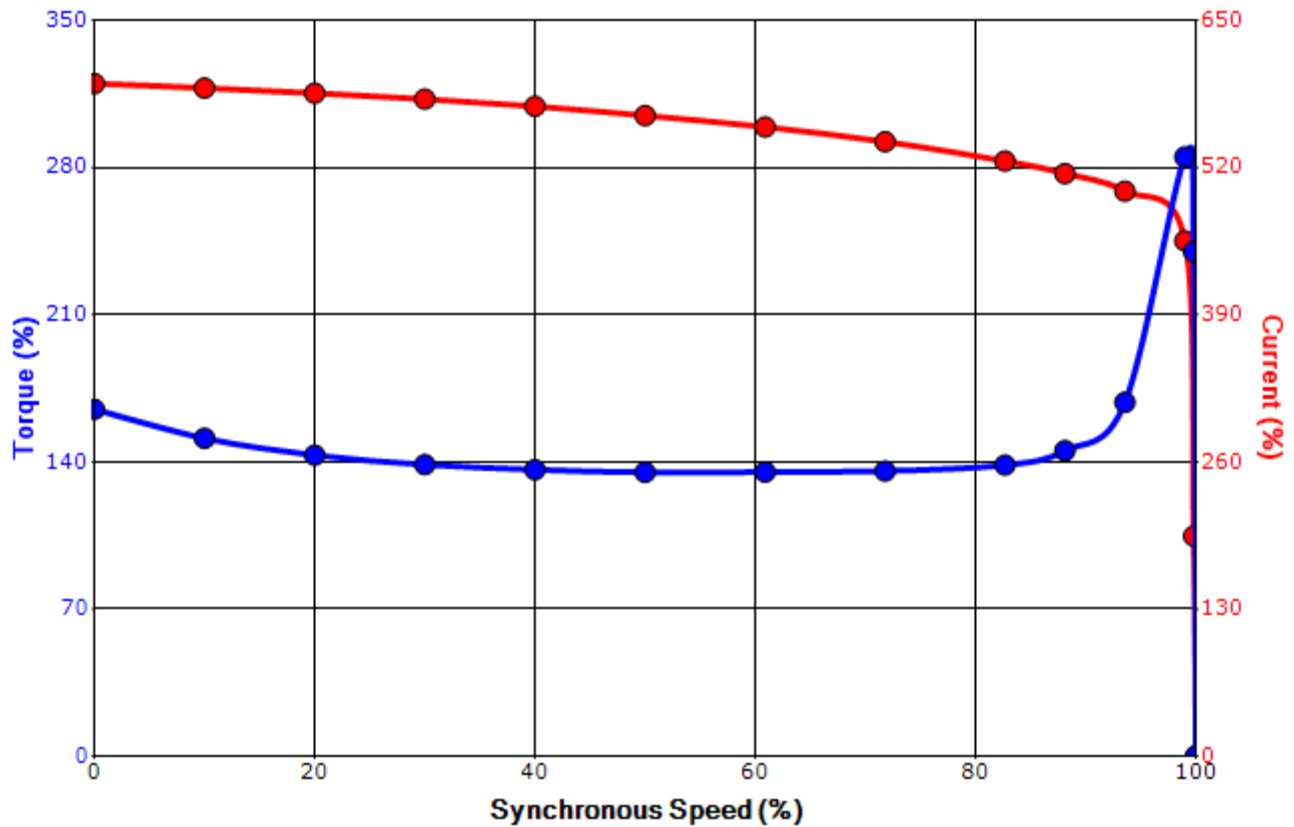
Issued Date	1/6/2020	Transmit #	
Issued By	dschoeck	Issued Rev	

### SPEED TORQUE/CURRENT CURVE

Model: 3504XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
350	261	4	1790	B449T	2300/4000	60	3	89/51
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.4	B	G	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 (%)			
293	186.07	1027	165	135	285			

### 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.

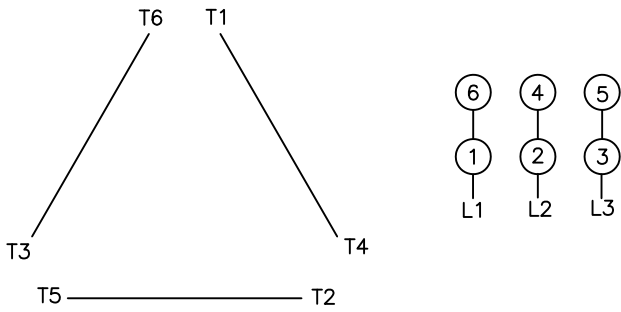
### TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering	Rodrigue	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1
Engr. Date	2/11/2019	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019

### Motor Connection Diagrams 6 Leads

#### Across-the-Line Starting / Running Connections

Low Voltage – Delta



High Voltage – Wye



Switch L1 and L2 to reverse rotation