

**TECHNICAL INFORMATION**

1. BEARING LUBRICATION DE: POLYREX EM  
ODE: POLYREX EM
2. BEARING TYPE DE: SEE TABLE  
ODE: 6318C3
3. WINDING TEMP. DETECTORS  
NUMBER AND TYPE: 6xRTD(Pt0°C-100ohm)  
LOCATION: IN STATOR SLOT
4. BEARING TEMP. DETECTORS  
NUMBER AND TYPE: N/A
5. SPACE HEATER 1 PHASE  
VOLTS: 120V WATTS: 240W
6. ROTATION: CCW VIEWED FROM NON DRIVE END  
THIS MOTOR IS BI DIRECTIONAL
7. MOTOR PAINT COLOR: GREEN
8. APPROX. WEIGHT: 3500 Lbs
9. 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 #	-	0	FIRST ISSUE	ME	7/23/19
UNITS:	INCHES	NO.	REVISION	BY	DATE

**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 S447/9T	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: Eddie R	DATE: 8/6/19	DRAWING NO.: MDSL0072-42	REV. 0
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Issued Date	1/6/2020	Transmit #	
Issued By	dschoeck	Issued Rev	

### TYPICAL MOTOR PERFORMANCE DATA

Model: 2004XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
200	150	4	1785	S449T	2300/4000	60	3	51/29
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95	B	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	200	149.1	29.2	94.8	77.6
¾ Load	150.00	111.9	23.0	93.8	74.8
½ Load	100.00	74.6	17.4	91.5	67.6
¼ Load	50.00	37.3	12.9	85.0	49.0
No Load			12.3		4.3
Locked Rotor			166		25.4

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)	
588	160	145	285	139.56

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



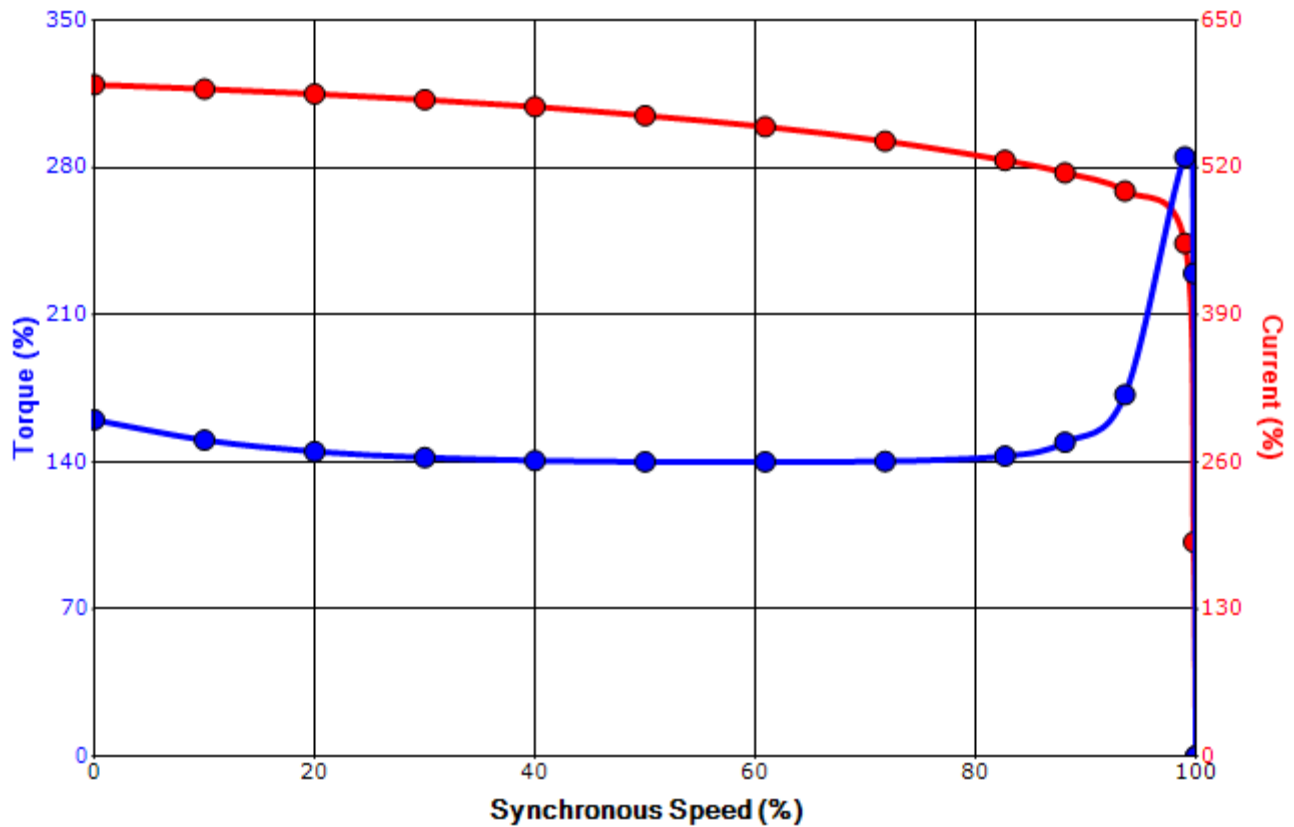
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### SPEED TORQUE/CURRENT CURVE

Model: 2004XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
200	150	4	1785	S449T	2300/4000	60	3	51/29
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95	B	G	40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque				Pull Up (%)	Break Down (%)	
		Full Load (lb-ft)	Locked Rotor (%)					
166	139.56	588	160		145	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.

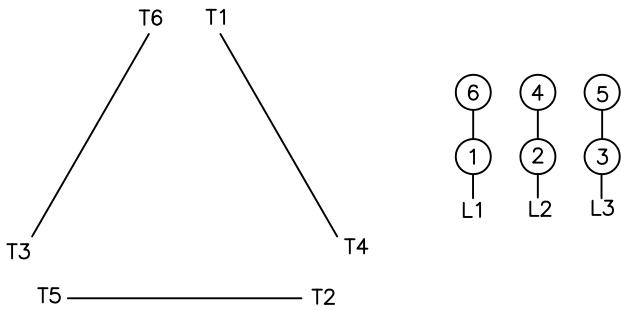
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Engineering	Rodrigue	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1
Engr. Date	2/11/2019	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019

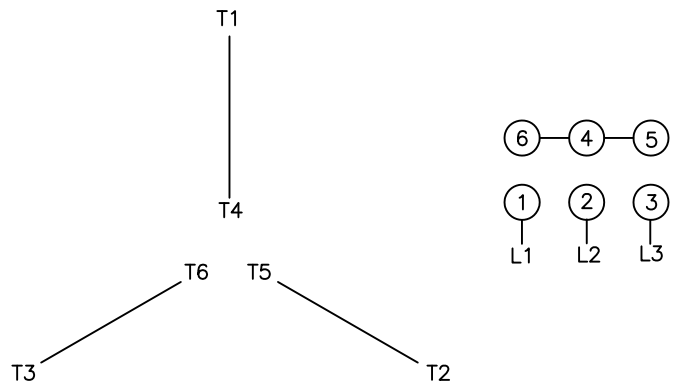
**Motor Connection Diagrams**  
6 Leads

Across-the-Line Starting / Running Connections

Low Voltage – Delta



High Voltage – Wye



Switch L1 and L2 to reverse rotation