

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 ⁻¹)	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.:	REV.
					MDSL0072-42	0

TYPICAL MOTOR PERFORMANCE DATA

Model: 2504XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	4	1790	S449T	2300/4000	60	3	64/37
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.0	A		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	250.00	186.4	37	94.9	76.5
¾ Load	187.50	139.8	29	94.0	73.7
½ Load	125.00	93.2	21	92.0	66.6
¼ Load	62.50	46.6	16.2	86.0	48.1
No Load			16.1		4.5
Locked Rotor			211		24.7

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
734	165	125	250	151.18

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.

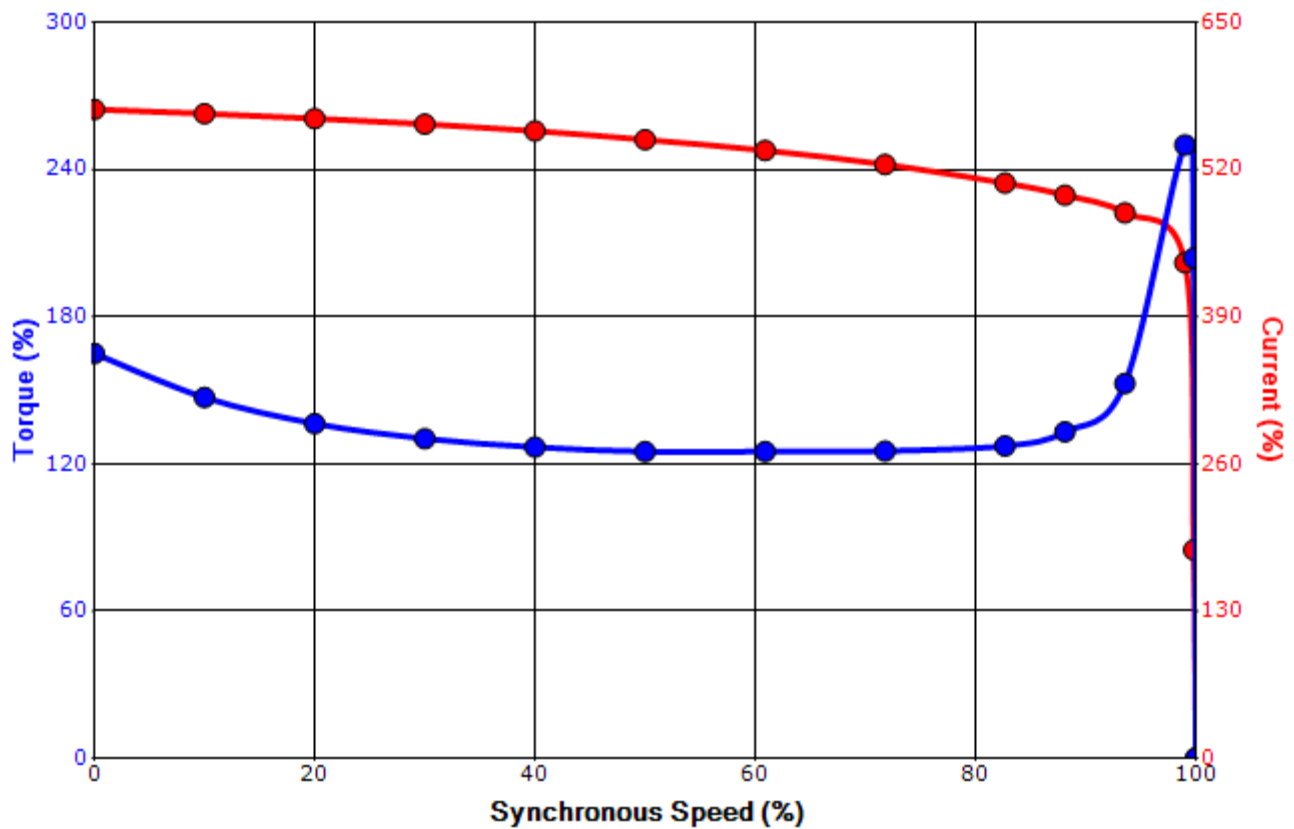
Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	4/17/2020	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 2504XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	4	1790	S449T	2300/4000	60	3	64/37
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.0	A		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
211	151.18	734	165	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	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	4/17/2020	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