

TECHNICAL INFORMATION

- BEARING LUBRICATION DE: MOBIL POLYREX EM
ODE: MOBIL POLYREX EM
- BEARING TYPE DE: 6315C3
ODE: 6315C3 INSULATED
- WINDING TEMP. DETECTORS
NUMBER AND TYPE: 6xRTD(Pt0°C-100ohm)
LOCATION: IN STATOR SLOT
- BEARING TEMP. DETECTORS
NUMBER AND TYPE: N/A
- SPACE HEATER 1 PHASE
VOLTS: 120 WATTS: 200
- ROTATION: CCW VIEWED FROM NON DRIVE END
THIS MOTOR IS UNI DIRECTIONAL
- MOTOR PAINT COLOR: GRAY
- APPROX. WEIGHT: 7000 Lbs
- ACCESORIES:

UNITS: INCHES

DRAWING LIST		MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR					
MAIN TERMINAL BOX 130-7622-55		CUSTOMER NAME		P.O. NO.		MOTOR TAG NO.	
AUX TERMINAL BOX FOR		OUTPUT HP	POLE	VOLTAGE V	FREQUENCY Hz	FULL LOAD SPEED (min ⁻¹)	TOSHIBA MODEL NO.
SPACE HEATER	130-7520-50	TYPE	FORM	INS. CLASS	RATING CONT.	FRAME	S.F.
R.T.D.	130-7522-51	TOSHIBA INTERNATIONAL CORPORATION		HOUSTON, TEXAS U.S.A.		ENCLOSURE	
THERMISTOR	N/A	3rd ANGLE PROJ.		PREPARED BY:	DATE:	CHECKED BY:	DATE:
PRODUCTION #	N/A	NO.		BY	DATE	DRAWING NO.:	REV.
		2		GRS FROM SRI, ADD DOWELS JACKING TO INLINE	RWS	1/6/14	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	
		0		FIRST ISSUE	BCS	4/24/07	
		NO.		REVISION	BY	DATE	
		1		ADD AIR DEFLECTOR	BEN	12/15/08	

TYPICAL MOTOR PERFORMANCE DATA

Model: 6003FTAL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
600	447	2	3577	5811USS	4000	60	3	74
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	95	-	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	600	447.4	73.6	95.0	92.3
¾ Load	450.00	335.6	56.4	94.2	91.1
½ Load	300.00	223.7	40.0	92.4	87.4
¼ Load	150.00	111.9	25.3	86.9	73.3
No Load			15.1		10.0
Locked Rotor			493.70		18.2

Torque				Rotor wk ²
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft ²)
881	100	105	290	177.60

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
30.7	13.9	-	M9-90 INS	M9-90 INS	

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

Motor Options:
Product Family:TEFC
Mounting:Footed,Shaft:USS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

Engineering	bmmamen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	7/9/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

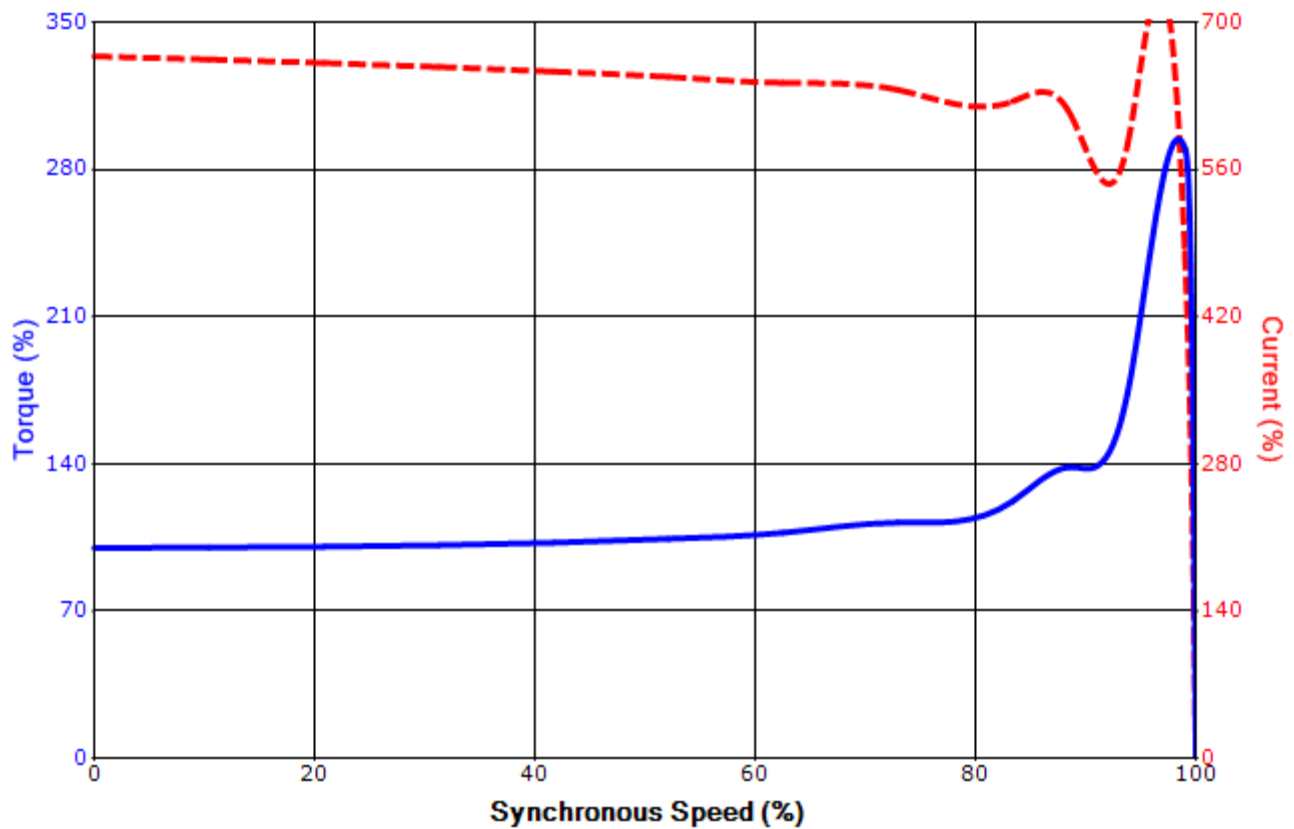
Issued Date	4/23/2015	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 6003FTAL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
600	447	2	3577	5811USS	4000	60	3	74
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	95	-	G	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
493.70	177.60	881	100	105			290	

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	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	7/9/2014	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