

UNITS: INCHES

**TECHNICAL INFORMATION**

- 1. BEARING LUBRICATION DE: MOBIL POLYREX EM  
ODE: MOBIL POLYREX EM
- 2. BEARING TYPE DE: 6322C3  
ODE: 6322C3 INSULATED
- 3. WINDING TEMP. DETECTORS  
NUMBER AND TYPE: 6xRTD(Pt0°C-100ohm)  
LOCATION: IN STATOR SLOT
- 4. BEARING TEMP. DETECTORS  
NUMBER AND TYPE: \_\_\_\_\_
- 5. SPACE HEATER 1 PHASE  
VOLTS: 120 WATTS: 200
- 6. ROTATION: CCW VIEWED FROM NON DRIVE END  
THIS MOTOR IS BI DIRECTIONAL
- 7. MOTOR PAINT COLOR: GRAY
- 8. APPROX. WEIGHT: 7000 Lbs
- 9. ACCESSORIES:

DRAWING LIST		NO.	REVISION	BY	DATE
MAIN TERMINAL BOX	130-7622-55	3	GRS FROM SRI, ADD DOWELS JACKING TO INLINE	RWS	1/6/14
AUX TERMINAL BOX FOR SPACE HEATER	130-7520-50	2	ADD CI FANCOVER	BCS	4/24/07
R.T.D.	130-7522-51	1	ADD SH & RTD AUX BOX	BCS	9/13/06
THERMISTOR	N/A	0	FIRST ISSUE	BCS	8/2/06
PRODUCTION #	N/A				

MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR						
CUSTOMER NAME			P.O. NO.		MOTOR TAG NO.	
OUTPUT HP	POLE	VOLTAGE V	FREQUENCY Hz	FULL LOAD SPEED (min <sup>-1</sup> )	TOSHIBA MODEL NO.	
TYPE	FORM	INS. CLASS	RATING CONT.	FRAME	S.F.	ENCLOSURE
		F		5811US		TEFC
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.						
3rd ANGLE PROJ.	PREPARED BY:	DATE:	CHECKED BY:	DATE:	DRAWING NO.:	REV.
	B SIDLE	8/2/06	D.LAJINESS	8/4/06	MDSL0071-18	3

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 8004FTAL11E-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
800	597	4	1785	5811US	4000	60	3	105
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	95.0	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	800.00	596.6	105	95.1	86.3
¾ Load	600.00	447.4	81	94.5	84.2
½ Load	400.00	298.3	59	92.8	78.4
¼ Load	200.00	149.1	40	87.8	60.4
No Load			32.0		5.5
Locked Rotor			712		25.7

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)	
2354	185	125	265	423.85

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
13	6	-	6322C3	6322C3 INS	7237

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

**Motor Options:**  
Product Family:TEFC  
Mounting:Footed,Shaft:US Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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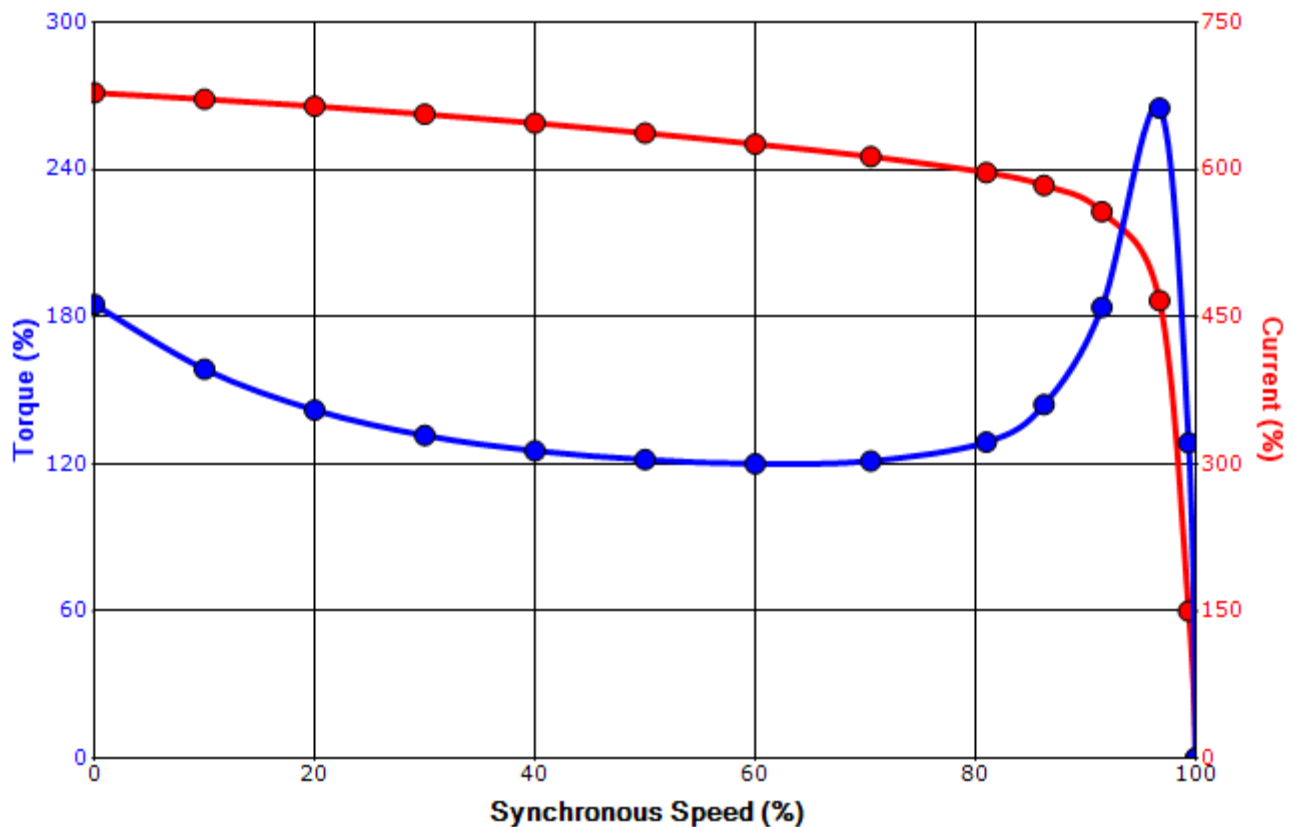
Engineering	garce	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	5/5/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 8004FTAL11E-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
800	597	4	1785	5811US	4000	60	3	105
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	95.0	-		40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
712	423.85	2354	185	125			265	

**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	garce	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	5/5/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

# Motor Connection Diagram

## 3 Leads - Wye Connection

### Single Voltage



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.  
If multiple cables represent a single lead, each one of them will be labeled with the appropriate lead number.