

UNITS: INCHES

**TECHNICAL INFORMATION**

1. BEARING LUBRICATION DE: TURBINE OIL ISO VG32  
ODE: TURBINE OIL ISO VG32
2. BEARING TYPE DE: M11-100 INS  
ODE: M11-100 INS
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: 300
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**

<b>MAIN TERMINAL BOX</b> 130-7622-55	
<b>AUX TERMINAL BOX FOR</b>	
SPACE HEATER	130-7520-50
R.T.D.	130-7522-51
THERMISTOR	N/A
PRODUCTION #	N/A

1	JACKING TO INLINE ADD DOWELS	RWS	1/6/14
0	FIRST ISSUE	JMP	12/5/08
NO.	REVISION	BY	DATE

**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 F	RATING CONT.	FRAME 5811US	S.F.	ENCLOSURE TEFC
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS				U.S.A.		
3rd ANGLE PROJ.	PREPARED BY: J PINON	DATE: 12/5/08	CHECKED BY: B SIDLE	DATE: 12/5/08	DRAWING NO.: MDSL0071-23	REV. 1

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 8004FTQL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
800	597	4	1790	5811US	4000	60	3	100
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	95.4	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	800.00	596.6	99	95.5	90.3
¾ Load	600.00	447.4	75	95.0	89.8
½ Load	400.00	298.3	53	93.7	86.6
¼ Load	200.00	149.1	33	89.3	73.0
No Load			22.0		7.5
Locked Rotor			675		15.0

Torque				Rotor wk <sup>2</sup>
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft <sup>2</sup> )
2349	80	85	230	422.99

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
47	18	-	M11-110 INS	M11-110 INS	7000

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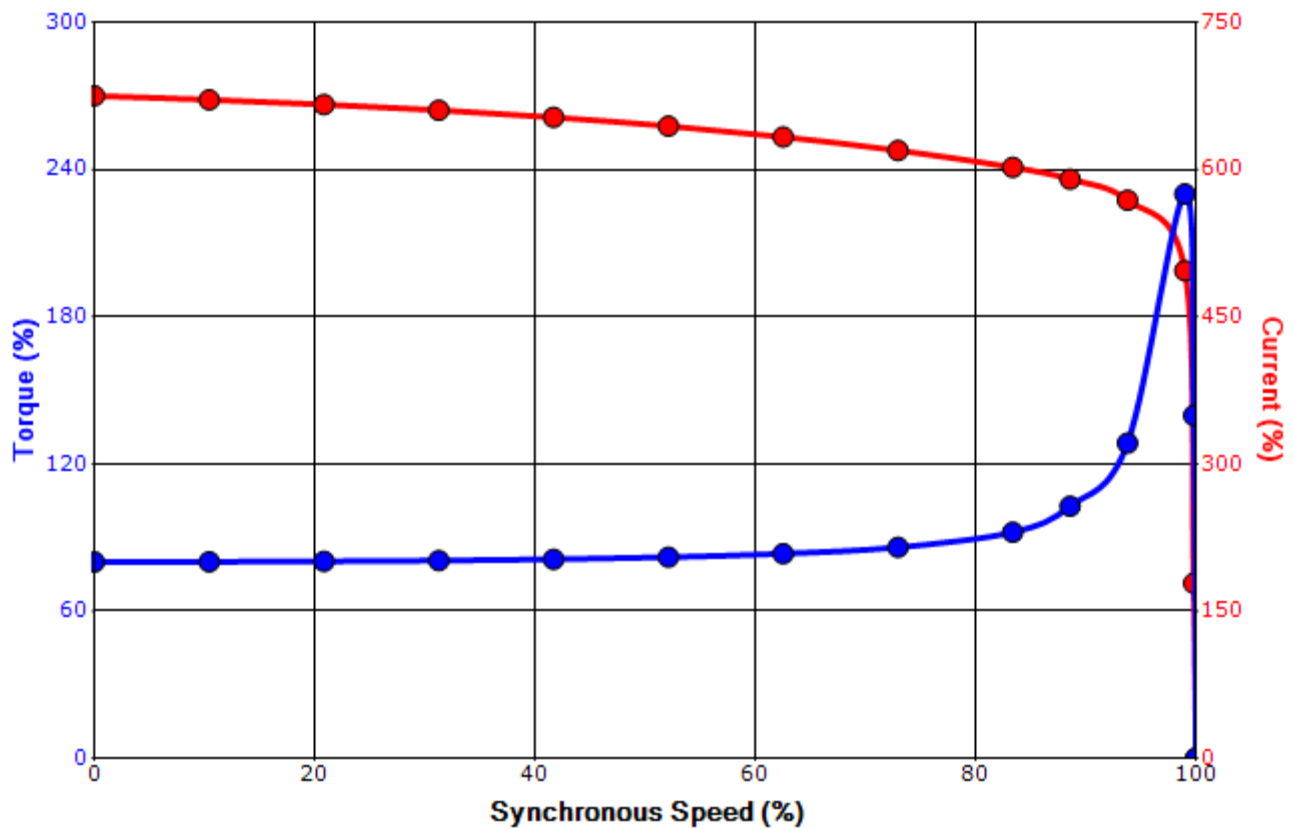
Engineering	bmmamen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	7/9/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 8004FTQL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
800	597	4	1790	5811US	4000	60	3	100
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	95.4	-		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 (%)				
675	422.99	2349	80	85			230	

**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	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 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.