

**TECHNICAL INFORMATION**

1. BEARING LUBRICATION DE: TURBINE OIL ISO VG32  
ODE: TURBINE OIL ISO VG32
2. BEARING TYPE DE: M9-90-INS  
ODE: M9-90-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: 400
6. ROTATION: CCW VIEWED FROM NON DRIVE END  
THIS MOTOR IS UNI DIRECTIONAL
7. MOTOR PAINT COLOR: \_\_\_\_\_
8. APPROX. WEIGHT: 9100 Lbs
9. ACCESORIES: \_\_\_\_\_

DRAWING LIST	
MAIN TERMINAL BOX 130-7532-02	3
AUX TERMINAL BOX FOR SPACE HEATER 130-7520-50 R.T.D. 130-7522-51 THERMISTOR N/A	1
PRODUCTION #	N/A

NO.	REVISION	BY	DATE
3	JACKING TO INLINE	RWS	1/3/14
2	UPDATE	MH	8/15/05
1	UPDATE	RW	4/16/03
0	FIRST ISSUE	RW	3/25/03

**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
	2	F		5811/12		TEAAC
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.						
3rd ANGLE PROJ.	PREPARED BY:	DATE:	CHECKED BY:	DATE:	DRAWING NO.:	REV.
	R. WILKINS	03/25/03	M. HO	04/01/03	MDSL 0077-11	3

**TYPICAL MOTOR PERFORMANCE DATA**

Model: M203TCQL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1000	746	2	3570	5812USS	4000	60	3	124.50
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEAAC	44	F	1.15	CONT	95.8	-	E	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	1000	745.7	124.4	95.7	90.2
¾ Load	750.00	559.3	95.5	95.2	88.6
½ Load	500.00	372.9	68.4	93.9	83.7
¼ Load	250.00	186.4	44.9	89.4	67.0
No Load			29.3		10.3
Locked Rotor			720.02719710909		23.9

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> )
1470	135	95	235	192.31

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
5.6	1.2	-	M9-90 INS	M9-90 INS	8300

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

**Motor Options:**  
Product Family: Dry Kiln 90C  
Mounting: Footed, Shaft: USS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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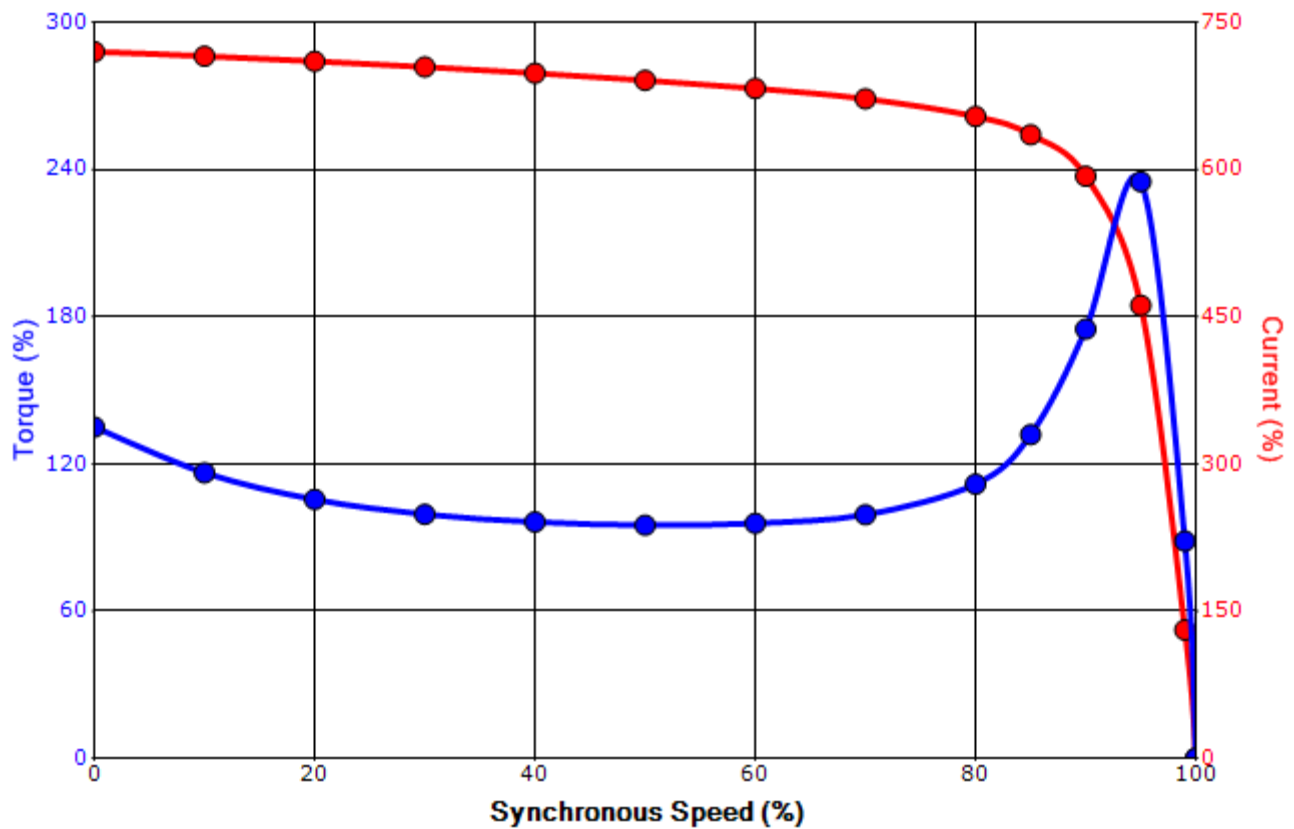
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	7/28/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: M203TCQL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1000	746	2	3570	5812USS	4000	60	3	124.50
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEAAC	44	F	1.15	CONT	95.8	-	E	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 (%)				
720.02719710909	192.31	1470	135	95			235	

**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:

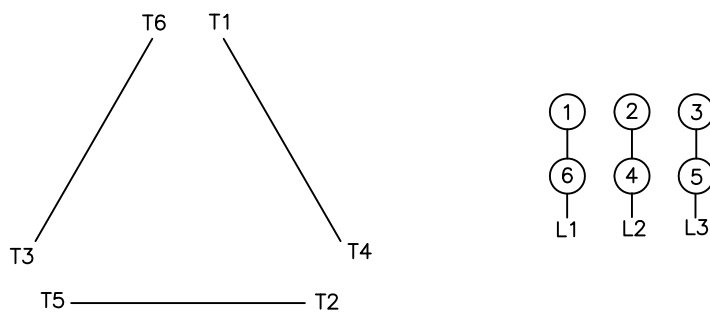
All characteristics are average expected values.

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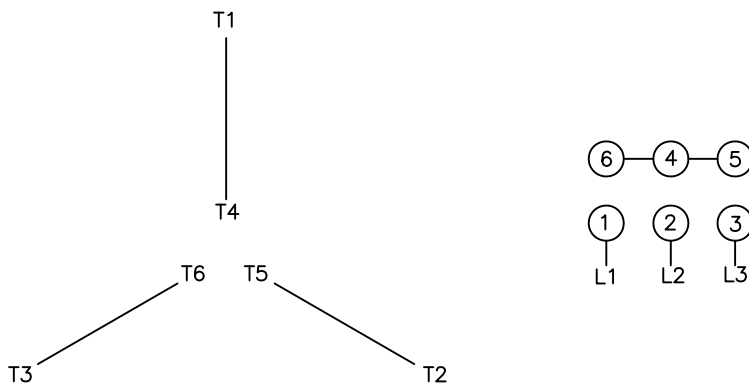
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	7/28/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**Motor Connection Diagrams**  
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation