

**TECHNICAL INFORMATION**

- BEARING LUBRICATION DE: TURBINE OIL ISO VG32  
ODE: TURBINE OIL ISO VG32
- BEARING TYPE DE: M9-90-INS  
ODE: M9-90-INS
- 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: 400
- ROTATION: CCW VIEWED FROM NON DRIVE END  
THIS MOTOR IS UNI DIRECTIONAL
- MOTOR PAINT COLOR: GRAY
- APPROX. WEIGHT: 7650 Lbs
- ACCESORIES:

**DRAWING LIST**

MAIN TERMINAL BOX 130P-7532-100		3	UPDATE	RWS	01/02/14
AUX TERMINAL BOX FOR		2	UPDATE	MH	08/15/05
SPACE HEATER	130-7520-50	1	UPDATE	RW	04/16/03
R.T.D.	139-0054-01				
THERMISTOR	N/A	0	FIRST ISSUE	RW	03/25/03
PRODUCTION #	N/A	NO.	REVISION	BY	DATE

**MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR**

CUSTOMER NAME				P.O. NO.	MOTOR TAG NO.	
OUTPUT HP	POLE 2	VOLTAGE V	FREQUENCY Hz	FULL LOAD SPEED (min <sup>-1</sup> )	TOSHIBA MODEL NO.	
TYPE	FORM DCW4	INS. CLASS F	RATING CONT.	FRAME 5811/5812	S.F.	ENCLOSURE WP-1
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.						
3rd ANGLE PROJ.	PREPARED BY: M. HO	DATE: 04/01/03	CHECKED BY:	DATE:	DRAWING NO.: MDSL0086-11	REV. 3

**TYPICAL MOTOR PERFORMANCE DATA**

Model: M403WPQL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2000	1492	2	3570	5812USS	4000	60	3	254
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-I	23	F	1.15	CONT	95.7	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2000.00	1491.4	253	95.7	88.7
¾ Load	1500.00	1118.6	192	95.7	87.5
½ Load	1000.00	745.7	136	95.2	82.8
¼ Load	500.00	372.9	87	92.8	66.0
No Load			66.3		4.5
Locked Rotor			1470		28.5

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)	
2943	165	90	210	222.90

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
3	1	-	M9-90 INS	M9-90 INS	0

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

**Motor Options:**  
Product Family:ODP & WP-I  
Mounting:Footed,Shaft:USS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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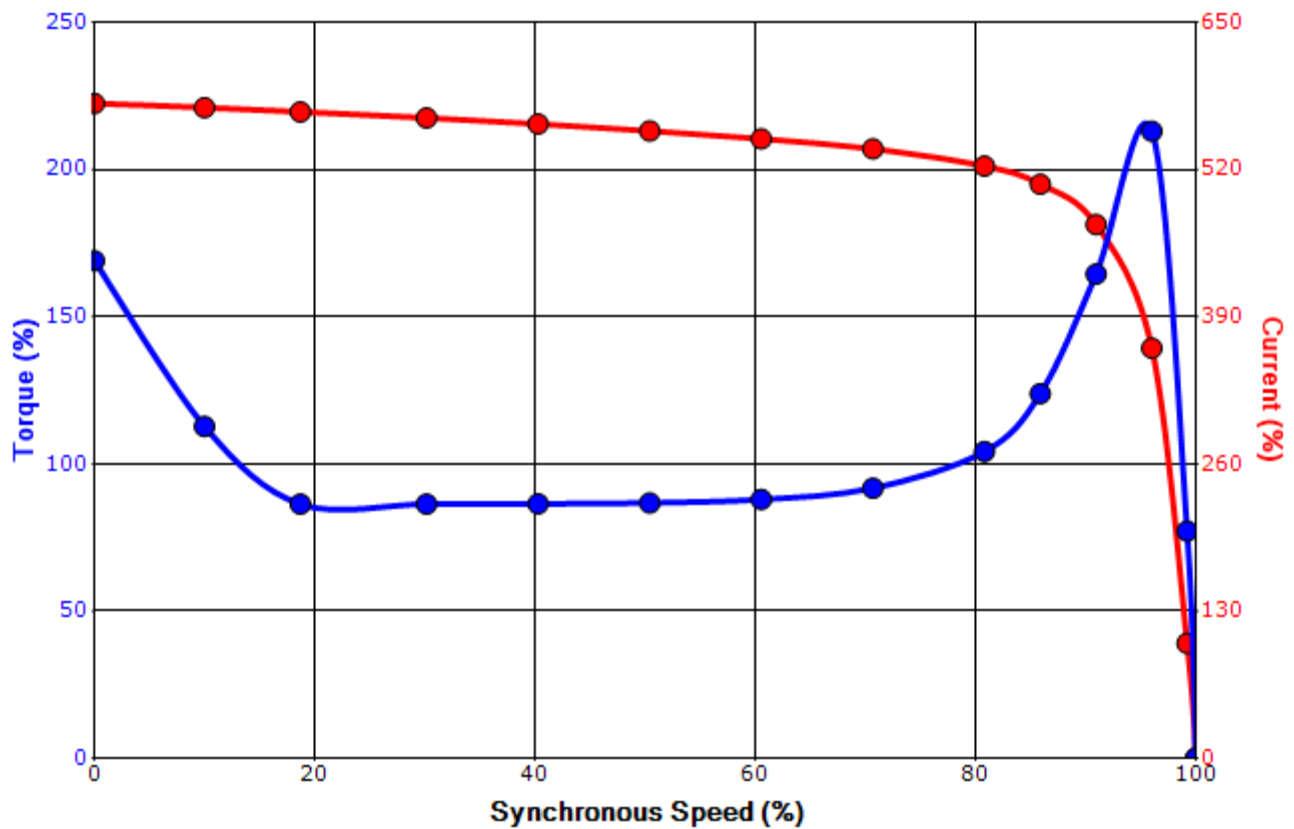
Engineering	bmmamen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	7/24/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: M403WPQL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2000	1492	2	3570	5812USS	4000	60	3	254
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-I	23	F	1.15	CONT	95.7	-		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 (%)			
1470	222.90	2943	165		90		210	

**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
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