

UNITS: INCHES

PRELIMINARY FOR QUOTATION ONLY DO NOT BUILD FROM THIS DRAWING

TECHNICAL INFORMATION

- BEARING LUBRICATION DE: MOBIL POLYREX EM OR EQUIVALENT
ODE: MOBIL POLYREX EM OR EQUIVALENT
- BEARING TYPE DE: 6328 INS
ODE: 6328 INS
- WINDING TEMP. DETECTORS
NUMBER AND TYPE: 6xRTD(Pt0°C-100ohm)
LOCATION: IN STATOR SLOT
- BEARING TEMP. DETECTORS
NUMBER AND TYPE: _____
- SPACE HEATER 1 PHASE
VOLTS: 120 WATTS: 800
- ROTATION: CCW VIEWED FROM NON DRIVE END
THIS MOTOR IS UNI DIRECTIONAL
- MOTOR PAINT COLOR: GRAY
- APPROX. WEIGHT: 14,000 Lbs
- ACCESORIES: _____

DRAWING LIST

MAIN TERMINAL BOX 130P-7550-68	
AUX TERMINAL BOX FOR	
SPACE HEATER	139-0052-01
R.T.D.	139-0052-04
THERMISTOR	N/A
PRODUCTION #	N/A

2	GRS FROM SRI JACKING TO INLINE	RWS	1/2/14
1	UPDATE INLET WINDOW SIZE & MAIN T-BOX P. No., CHG. SPACE HEATER WATTS FROM 400	JMP	10/12/11
0	FIRST ISSUE	JMP	03/01/11
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 ⁻¹)		TOSHIBA MODEL NO.	
TYPE	FORM	INS. CLASS F	RATING CONT.	FRAME 6813US	S.F.	ENCLOSURE WP-II	
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.							
3rd ANGLE PROJ.	PREPARED BY: J.PINON	DATE: 03/01/11	CHECKED BY: B.SIDLE	DATE: 03/01/11	DRAWING NO.: MDSL0087-62	REV. 2	

TYPICAL MOTOR PERFORMANCE DATA

Model: M705WTAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
3500	2611	4	1781	6813US	4000	60	3	432
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	96.7	-	F	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	3500	2610.0	431.4	96.7	90.4
¾ Load	2625.00	1957.5	325.8	96.6	89.7
½ Load	1750.00	1305.0	227.7	96.2	86.0
¼ Load	875.00	652.5	142.4	94.1	70.3
No Load			81.2		3.7
Locked Rotor			2797.90		15.8

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1.032E+04	80	85	240	1349.76

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
34	13	-	6328C3 INS	6328C3 INS	

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

Motor Options:
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	7/10/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

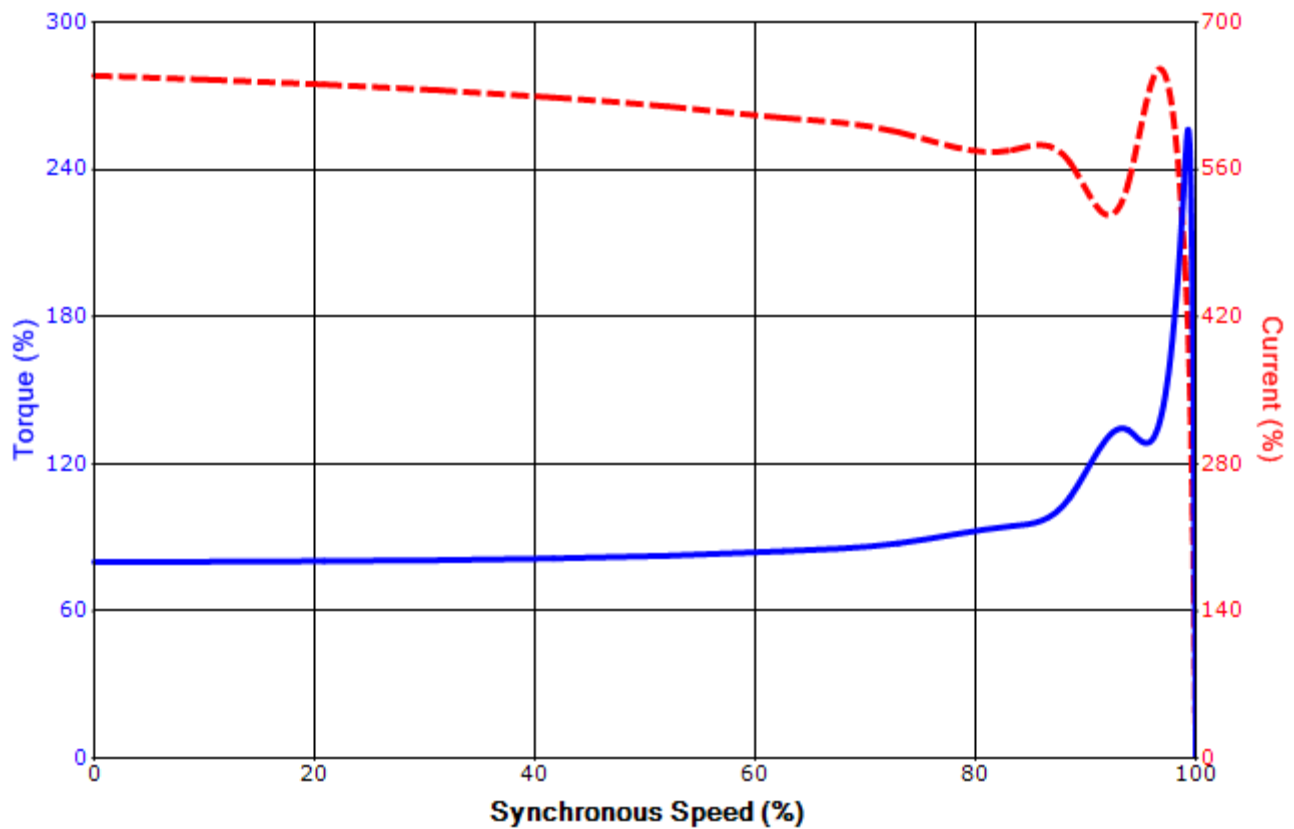
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Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: M705WTAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
3500	2611	4	1781	6813US	4000	60	3	432
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	96.7	-	F	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
2797.90	1349.76	1.032E+04	80	85			240	

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
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