

TECHNICAL INFORMATION

- BEARING LUBRICATION DE: MOBIL POLYREX EM
ODE: MOBIL POLYREX EM
- BEARING TYPE DE: 6315C3
ODE: 6315C3 INSULATED
- 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: 200
- ROTATION: CCW VIEWED FROM NON DRIVE END
THIS MOTOR IS UNI DIRECTIONAL
- MOTOR PAINT COLOR: GRAY
- APPROX. WEIGHT: 7000 Lbs
- ACCESORIES:

UNITS: INCHES

DRAWING LIST		MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR					
MAIN TERMINAL BOX 130-7622-55		CUSTOMER NAME		P.O. NO.		MOTOR TAG NO.	
AUX TERMINAL BOX FOR		OUTPUT HP	POLE	VOLTAGE V	FREQUENCY Hz	FULL LOAD SPEED (min ⁻¹)	TOSHIBA MODEL NO.
SPACE HEATER	130-7520-50	TYPE	FORM	INS. CLASS F	RATING CONT.	FRAME 5811USS	S.F. ENCLOSURE TEFC
R.T.D.	130-7522-51	TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.					
THERMISTOR	N/A	3rd ANGLE PROJ.	PREPARED BY: B SIDLE	DATE: 4/24/07	CHECKED BY: S Johnson	DATE: 4/26/07	DRAWING NO.: MDSL0071-17
PRODUCTION #	N/A	NO.	REVISION	BY	DATE		REV. 2
		2	GRS FROM SRI, ADD DOWELS JACKING TO INLINE	RWS	1/6/14		
		1	ADD AIR DEFLECTOR	BEN	12/15/08		
		0	FIRST ISSUE	BCS	4/24/07		

TYPICAL MOTOR PERFORMANCE DATA

Model: 5003FTAL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
500	373	2	3570	5811USS	4000	60	3	66
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	94.5	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	500.00	372.9	66	94.6	86.8
¾ Load	375.00	279.6	50	93.7	85.9
½ Load	250.00	186.4	35	91.8	82.4
¼ Load	125.00	93.2	22	86.0	68.9
No Load			13.0		8.9
Locked Rotor			416		22.5

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
736	150	100	260	179.30

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
13	6	-	6315C3	6315C3 INS	6500

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

Motor Options:
Product Family:TEFC
Mounting:Footed,Shaft:USS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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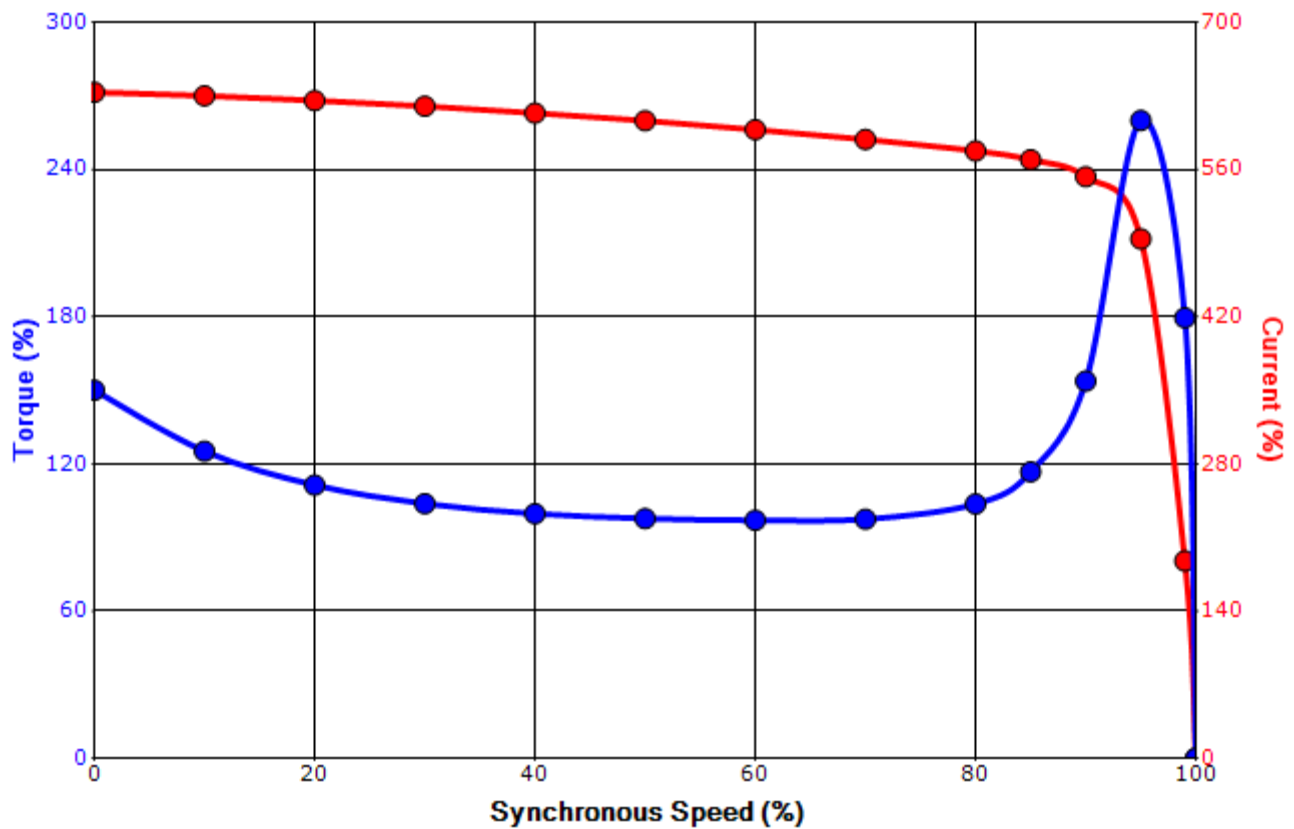
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	2/13/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 5003FTAL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
500	373	2	3570	5811USS	4000	60	3	66
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	94.5	B		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
416	179.30	736	150	100			260	

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.

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Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	2/13/2014	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.