

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: 400
- ROTATION: CCW VIEWED FROM NON DRIVE END
THIS MOTOR IS UNI DIRECTIONAL
- MOTOR PAINT COLOR: GRAY
- APPROX. WEIGHT: 5000 Lbs.
- ACCESORIES:

DRAWING LIST

MAIN TERMINAL BOX 130-7622-55					
AUX TERMINAL BOX FOR SPACE HEATER	130-7520-50	2	CHANGE AUX BOX DIM FROM 12.3	HL	3/16/20
R.T.D. THERMISTOR	130-7522-51	1	GRS FROM SRI	RWS	1/2/14
PRODUCTION #	-	0	FIRST ISSUE	MH	012904
UNITS:	INCHES	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 5011/12USS	S.F.	ENCLOSURE WP-II
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.						
3rd ANGLE PROJ.	PREPARED BY: M.HO	DATE: 012904	CHECKED BY: D. HENSLEY	DATE: 012904	DRAWING NO.: MDSL0087-05	REV. 2

TYPICAL MOTOR PERFORMANCE DATA

Model: 6003WTAK11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
600	447	2	3560	5012USS	2300/4000	60	3	137/79
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	94.1	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	600.00	447.4	79	94.1	86.6
¾ Load	450.00	335.6	61	93.9	84.2
½ Load	300.00	223.7	44	93.0	77.7
¼ Load	150.00	111.9	30	89.4	58.3
No Load			18.9		6.2
Locked Rotor			458		22.0

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
885	115	85	250	103.60

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
15	10		6315C3	6315C3 INS	5000

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

Motor Options:
Product Family:WP-II
Mounting:Footed,Shaft:USS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

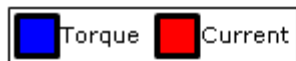
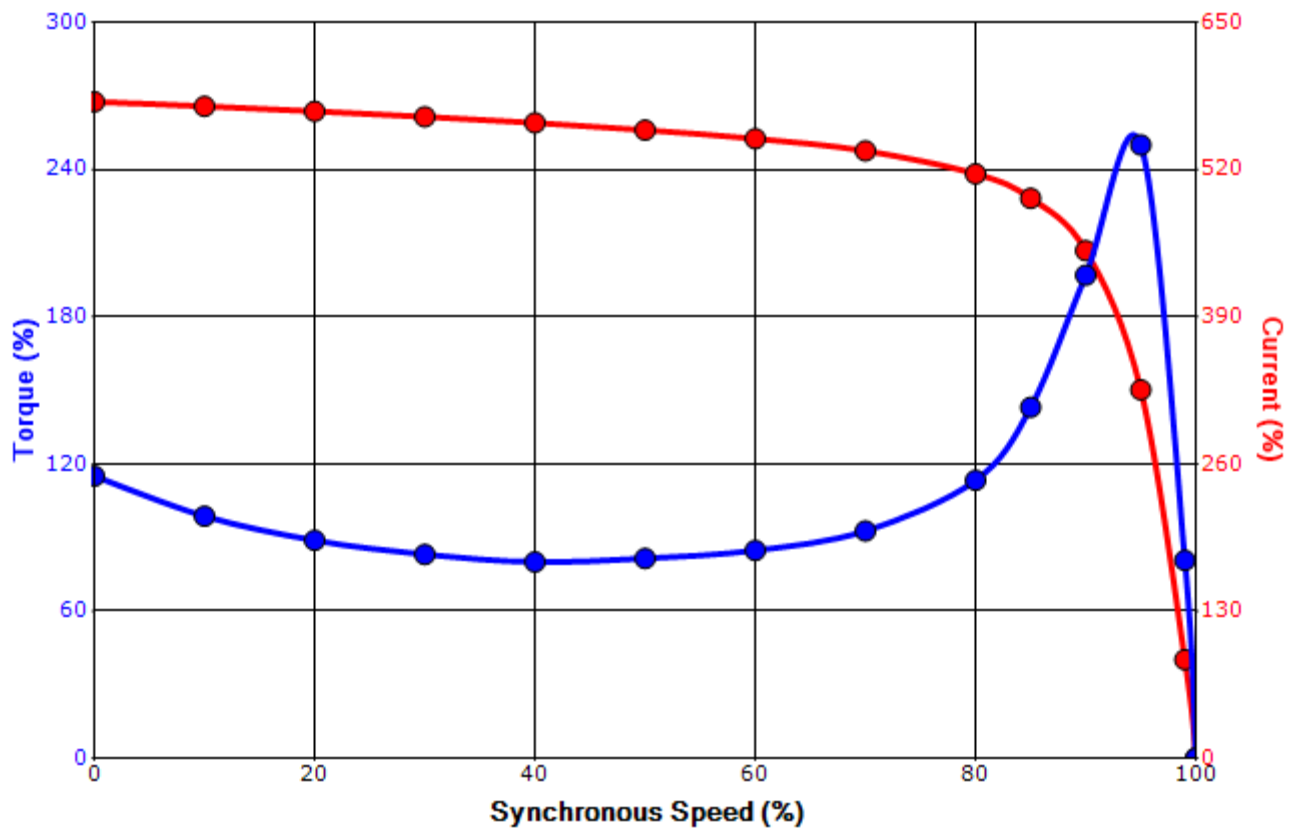
Engineering	bmmamen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	9/3/2019	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 6003WTAK11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
600	447	2	3560	5012USS	2300/4000	60	3	137/79
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	94.1	-		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque				Pull Up (%)	Break Down (%)	
		Full Load (lb-ft)	Locked Rotor (%)					
458	103.60	885	115		85	250		

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
Engr. Date	9/3/2019	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Motor Connection Diagrams
6 Leads

Across-the-Line Starting / Running Connections

Low Voltage – Delta



High Voltage – Wye



Switch L1 and L2 to reverse rotation