ROTATION

48.8
41.7
62.4
1.4
7.5
11.50 11.50
26.3(SH)
26.9(RTD)
34.0
29.5
8 X Ø 1.375 HOLES
GROUND TERMINAL
12.0
Ø4.63 HOLE

98.0
57.8 40.2
16.5
28.5
19.7 (SH)
14.50 +0.0000 / -0.0625
4.0
18.3 (RTD)
AIR IN
AIR OUT
AIR OUT
Ø0.75 NPT FOR SH
GROUND TERMINAL
Ø1.25 NPT FOR RTD
18
13.8 13.8
36.00
40.00
45.00
53.7
5.74
8.00
10.50
9.4

0.75 +0.002 / -0.000
2.45 +0.00 / -0.02
2.875 +0.000 / -0.001

Ø5/16" HOLES
TYPICAL 4 PLACES
FOR DOWEL PINS
Ø3/4"-10 UNC
TYPICAL 6 PLACES
FOR JACKING BOLTS
1.69
11.50

TECHNICAL INFORMATION

1. BEARING LUBRICATION   DE: MOBIL POLYREX EM
                          ODE: MOBIL POLYREX EM

2. BEARING TYPE   DE: 6315C3
                   ODE: 6315C3 INSULATED

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		4	FROM 5811/12 MTG, CHG. AUX BOX DIM FROM 14.6, CHG JACKING BOLTS FROM 4	JV	7/01/22
MAIN TERMINAL BOX	130−7532−02	3	GRS FROM SRI JACKING TO INLINE	RWS	1/3/14
AUX TERMINAL BOX FOR		2	UPDATE	MH	8/15/05
SPACE HEATER	130−7520−50				
R.T.D.	130−7522−51	1	UPDATE	RW	4/16/03
THERMISTOR	N/A				
		O	FIRST ISSUE	RW	3/25/03
PRODUCTION #	N/A	NO.	REVISION	BY	DATE

MOTOR OUTLINE FOR
THREE PHASE INDUCTION MOTOR

CUSTOMER NAME					P.O. NO.		MOTOR TAG NO.	
OUTPUT	POLE	VOLTAGE	FREQUENCY	FULL LOAD SPEED		TOSHIBA MODEL NO.		
HP	2	V	Hz	(min⁻¹)				
TYPE	FORM	INS. CLASS	RATING	FRAME		S.F.		ENCLOSURE
		F	CONT.	5810/11/12				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 0077−01	4

TOSHIBA
Leading Innovation >>>

	Issued Date	7/21/2022	Transmit #	
	Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: M253TCAL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1250	933	2	3570	5812USS	4000	60	3	154

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEAAC	44	F	1.15	CONT	96.2	-	E	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	1250.00	932.1	154	96.1	90.6
¾ Load	937.50	699.1	118	95.7	89.2
½ Load	625.00	466.1	83	94.6	84.7
¼ Load	312.50	233.0	54	90.6	68.5
No Load			34.6		9.5
Locked Rotor			883		23.5

	Torque				Rotor wk²
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)		Inertia (lb-ft²)
1839	145	105	235		222.90

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	Hot		DE	NDE	(lbs)
4	1	-	6315C3	6315C3 INS	0

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

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

Customer	
Customer PO	
Sales Order	
Project #	
Tag:	

All characteristics are average expected values.

	Issued Date	7/21/2022	Transmit #	
	Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: M253TCAL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1250	933	2	3570	5812USS	4000	60	3	154

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEAAC	44	F	1.15	CONT	96.2	-	E	40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
883	222.90	1839	145	105	235

Design Values

Customer			wk² Load Inertia (lb-ft²)	-
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.

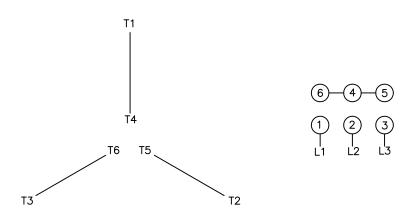| Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	7/24/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Motor Connection Diagrams
6 Leads

Across the Line Starting / Run - Delta:

Alternate Starting Connection - Wye:

Switch L1 and L2 to reverse rotation

Issued Date: 7/21/2022	**Transmit #:**
Issued By: dschoeck	**Issued Rev:**

SPARE PARTS LIST*

Model: M253TCAL11F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1250	933	2	3570	5812USS	4000	60	3	154

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEAAC	44	F	1.15	CONT	96.2	-	E	40 C

Bearings DE	6315C3 / 75BC03J3OX
Bearings NDE	6315C3 INS / 75BC03J3OX

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

Other than the grease used for regreasable bearings and the oil used for oil-lubricated bearings, Toshiba advises that there are no "use" parts. The only insurance spares that Toshiba suggests for these squirrel-cage induction motors are industry-standard and commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

Customer	
Customer PO	
Sales Order	
Project #	
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-1125 / 0
Engr. Date	7/24/2014	**Doc. Approved By**	M. Campbell	**Doc. Issued**	6/8/2011