

UNITS: INCHES

**TECHNICAL INFORMATION**

1. BEARING LUBRICATION DE: MOBIL POLYREX EM  
ODE: MOBIL POLYREX EM
2. BEARING TYPE DE: 6322C3  
ODE: 6322C3 INSULATED
3. WINDING TEMP. DETECTORS  
NUMBER AND TYPE: 6xRTD(PtO°C-100ohm)  
LOCATION: IN STATOR SLOT
4. BEARING TEMP. DETECTORS  
NUMBER AND TYPE: \_\_\_\_\_
5. SPACE HEATER 1 PHASE  
VOLTS: 120 WATTS: 200
6. ROTATION: CCW VIEWED FROM NON DRIVE END  
THIS MOTOR IS BI DIRECTIONAL
7. MOTOR PAINT COLOR: GRAY
8. APPROX. WEIGHT: 7000 Lbs
9. ACCESSORIES:

DRAWING LIST		NO.	REVISION	BY	DATE
MAIN TERMINAL BOX 130-7622-55		3	GRS FROM SRI, ADD DOWELS JACKING TO INLINE	RWS	1/6/14
AUX TERMINAL BOX FOR SPACE HEATER 130-7520-50		2	ADD CI FANCOVER	BCS	4/24/07
R.T.D. 130-7522-51		1	ADD SH & RTD AUX BOX	BCS	9/13/06
THERMISTOR N/A		0	FIRST ISSUE	BCS	8/2/06
PRODUCTION #	N/A				

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 <sup>-1</sup> )	TOSHIBA MODEL NO.	
TYPE	FORM	INS. CLASS F	RATING CONT.	FRAME 5811US	S.F.	ENCLOSURE TEFC
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.						
3rd ANGLE PROJ.	PREPARED BY: B SIDLE	DATE: 8/2/06	CHECKED BY: D.LAJINESS	DATE: 8/4/06	DRAWING NO.: MDSL0071-18	REV. 3

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 4508FTAL11E-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	8	890	5811US	4000	60	3	68
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	94.5	-		40

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	450.00	335.6	67	94.5	75.5
¾ Load	337.50	251.7	54	93.9	71.5
½ Load	225.00	167.8	42	92.3	62.2
¼ Load	112.50	83.9	28	87.3	48.1
No Load			28.8		3.1
Locked Rotor			393		23.3

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)	
2656	155	115	220	497.59

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15		6322C3	6322C3 INS	6900

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

**Motor Options:**  
Product Family:TEFC  
Mounting:Footed,Shaft:US Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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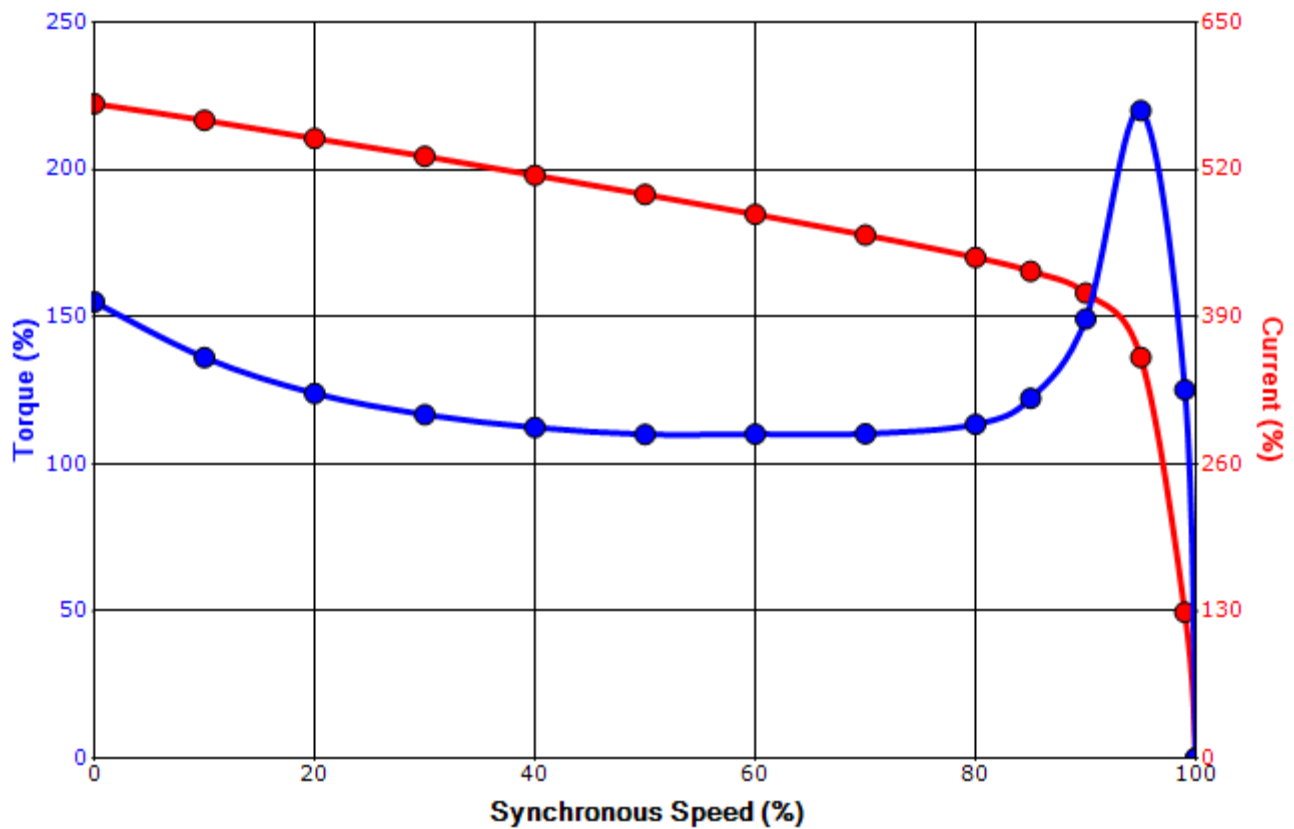
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	5/16/2023	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 4508FTAL11E-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	8	890	5811US	4000	60	3	68
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	94.5	-		40
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 (%)				
393	497.59	2656	155	115			220	

**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	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	5/16/2023	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.