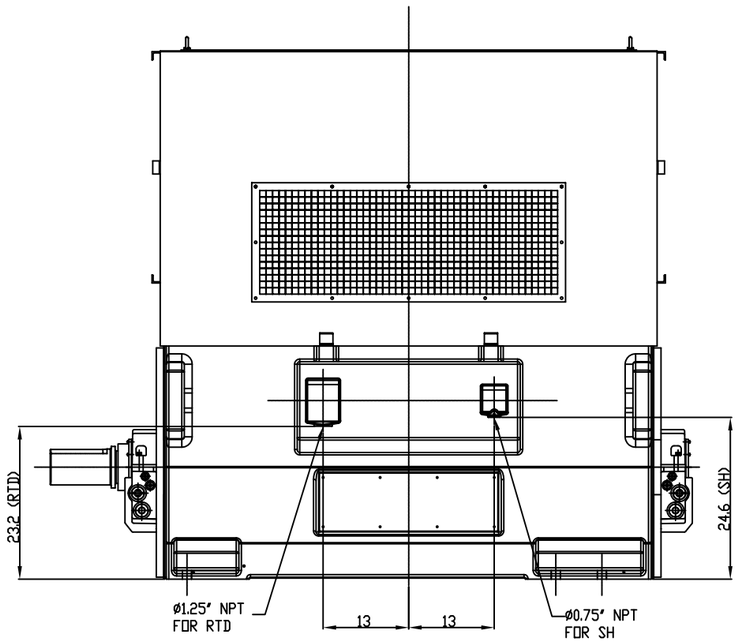
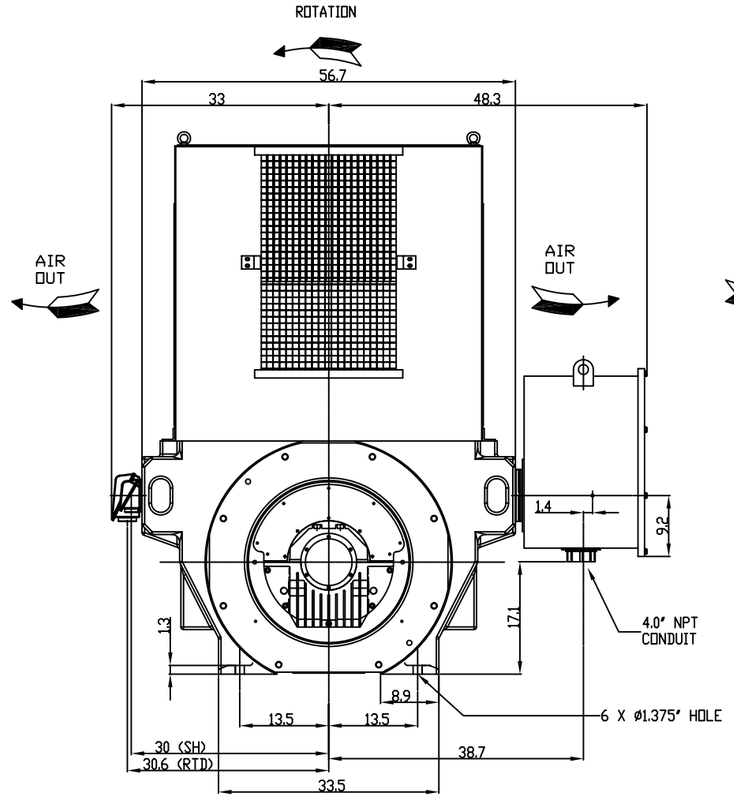
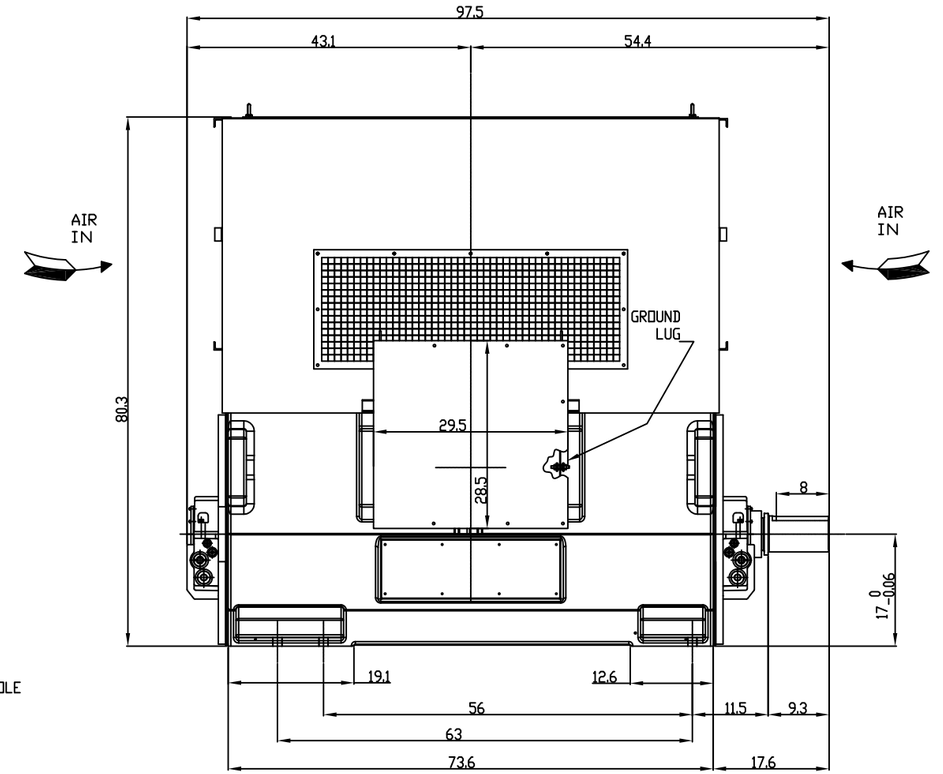
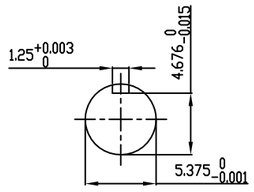
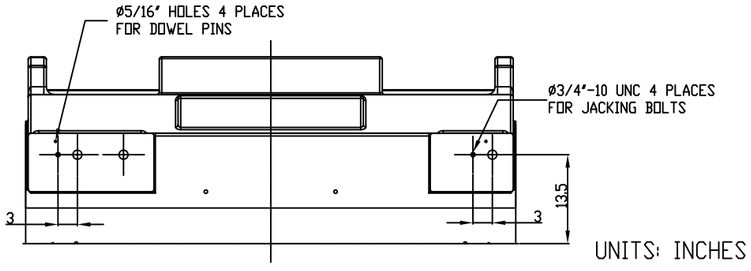










UNITS: INCHES

TECHNICAL INFORMATION

1. BEARING LUBRICATION — DE: TURBINE OIL ISO VG32; ODE: TURBINE OIL ISO VG32
2. BEARING TYPE — DE: M11–125 INS; ODE: M11–125 INS
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: 800
6. ROTATION: CCW VIEWED FROM NON DRIVE END
   THIS MOTOR IS BI DIRECTIONAL
7. MOTOR PAINT COLOR: GRAY
8. APPROX. WEIGHT: 14,000 Lbs
9. ACCESORIES:

PRELIMINARY
FOR QUOTATION ONLY
DO NOT BUILD
FROM THIS DRAWING

DRAWING LIST

MAIN TERMINAL BOX
130P–7550–68

AUX TERMINAL BOX FOR	
SPACE HEATER	130–7520–50
R.T.D.	130–7522–51
THERMISTOR	N/A
PRODUCTION #	N/A

NO.	REVISION	BY	DATE
3	JACKING TO INLINE	RWS	1/3/14
2	UPDATE TOP HAT EXHAUST WINDOWS	JMP	03/01/12
1	CHG. SPACE HEATER WATTS FROM 400	JMP	10/12/11
0	FIRST ISSUE	JMP	10/04/11

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.
	8				

TYPE	FORM	INS. CLASS	RATING	FRAME	S.F.	ENCLOSURE
		F	CONT.	6813US		WP–II

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

3rd ANGLE PROJ.	PREPARED BY:	DATE:	CHECKED BY:	DATE:	DRAWING NO.:	REV.
	J.PINON	10/04/11	B SIDLE	10/4/11	MDSL0087–71	3

Issued Date	4/23/2015	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

TYPICAL MOTOR PERFORMANCE DATA

Model: M458WTQL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2250	1679	8	890	6813US	4000	60	3	321

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	96.1	-	J	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2250	1677.8	320.7	96.1	78.6
¾ Load	1687.50	1258.4	256.1	95.8	74.0
½ Load	1125.00	838.9	199.9	94.9	63.9
¼ Load	562.50	419.5	159.1	91.6	41.6
No Load			152.7		2.2
Locked Rotor			2458.00		15.8

Torque				Rotor wk² Inertia
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	(lb-ft²)
1.328E+04	85	90	265	2818.13

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	Hot		DE	NDE	(lbs)
27.2	15.2	-	M11-125 INS	M11-125 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.

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

Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	8/28/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Issued Date	4/23/2015	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

SPEED TORQUE/CURRENT CURVE

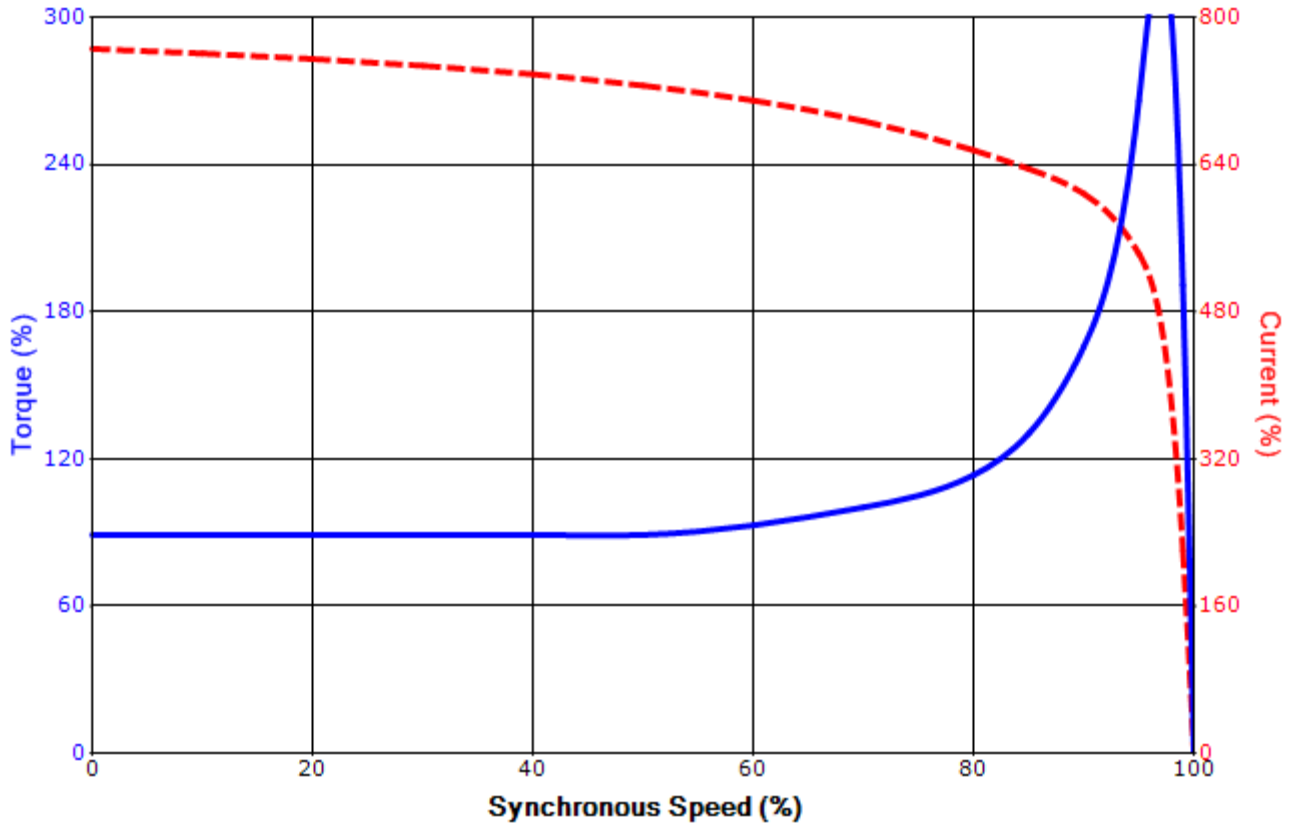
Model: M458WTQL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2250	1679	8	890	6813US	4000	60	3	321

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	96.1	-	J	40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
2458.00	2818.13	1.328E+04	85	90	265

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	8/28/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011