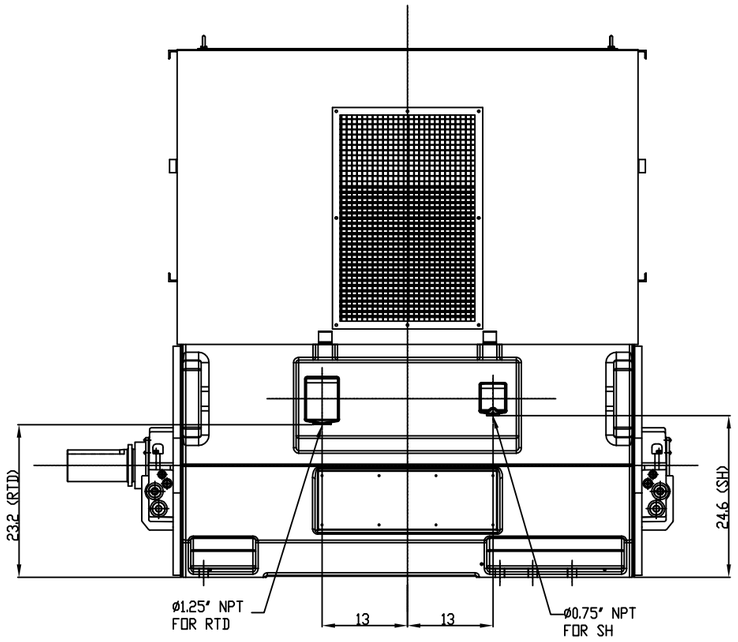
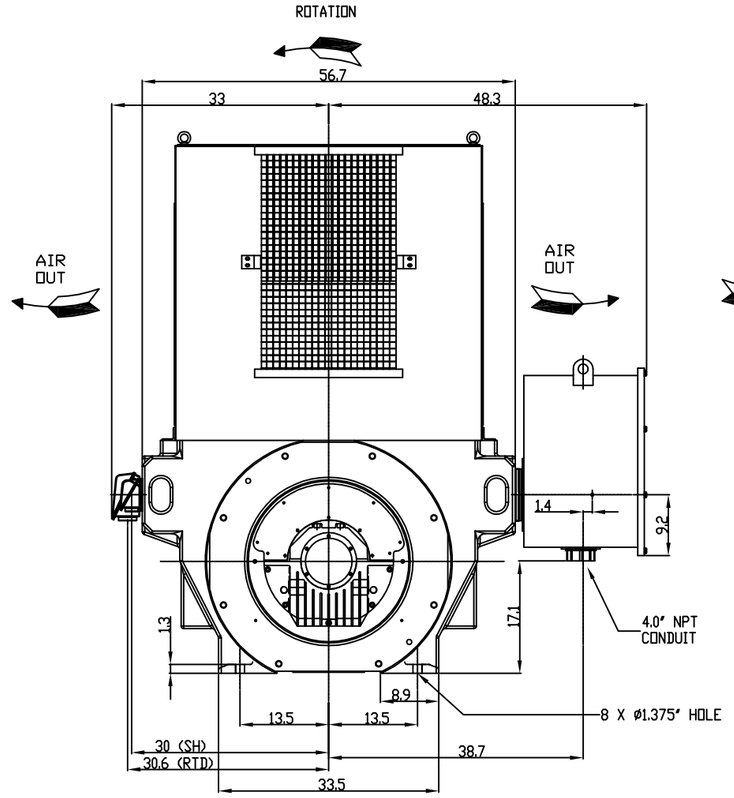
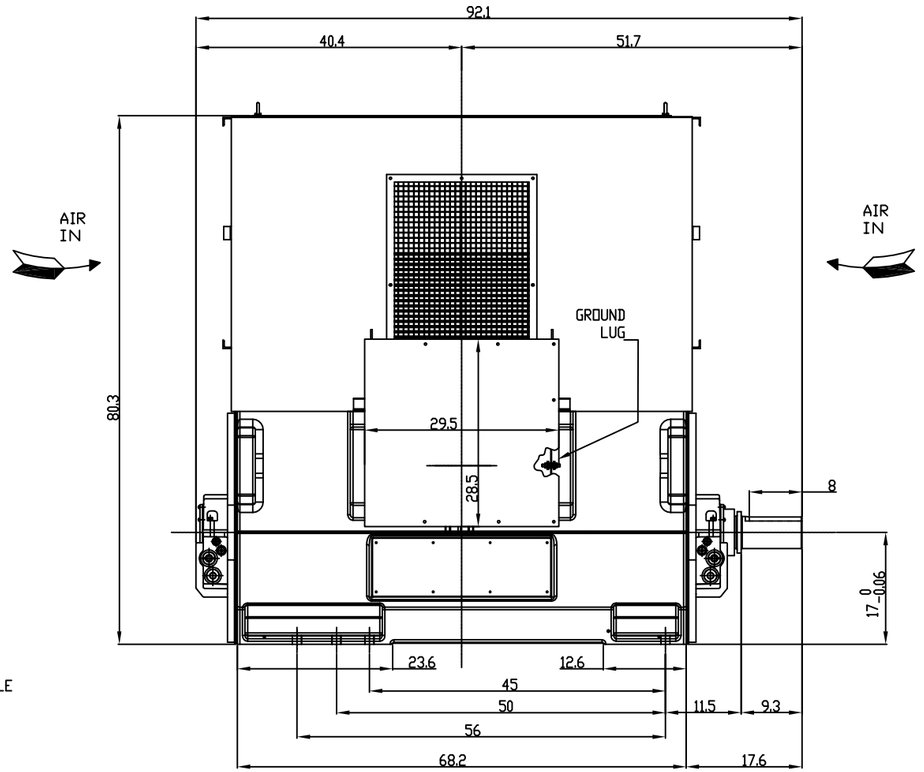
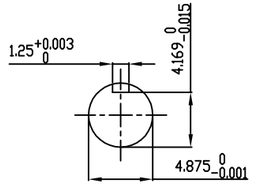
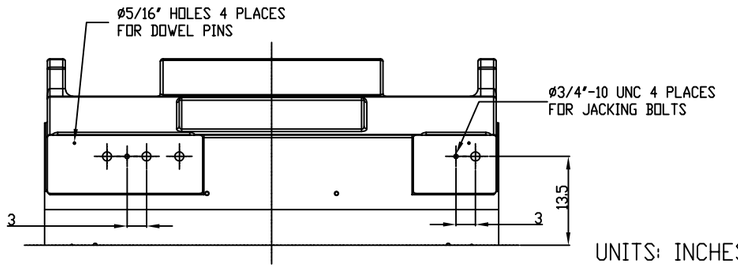










UNITS: INCHES

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 UNI 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	139–0052–01
R.T.D.	139–0052–04
THERMISTOR	N/A
PRODUCTION #	N/A

NO.	REVISION	BY	DATE
2	JACKING TO INLINE	RWS	1/3/14
1	UPDATE INLET WINDOW SIZE & MAIN T-BOX P. No., CHG. SPACE HEATER WATTS FROM 400	JMP	10/12/11
0	FIRST ISSUE	BCS	11/10/10

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	4	V	Hz	(min^{-1})	
TYPE	**FORM**	**INS. CLASS**	**RATING**	**FRAME**	**S.F.**	**ENCLOSURE**
		F	CONT.	6810US		WP–II

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

3rd ANGLE PROJ.	PREPARED BY:	DATE:	CHECKED BY:	DATE:	DRAWING NO.:	REV.
	B SIDLE	11/10/10	J.PINON	11/10/10	MDSL0087–66	2

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

TOSHIBA
Leading Innovation >>>

TYPICAL MOTOR PERFORMANCE DATA

Model: M405WTQL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2000	1492	4	1781	6810US	4000	60	3	250
Enclosure	**IP**	**Ins. Class**	**S.F.**	**Duty**	**NEMA Nom. Eff.**	**NEMA Design**	**kVA Code**	**Ambient (°C)**
WP-II	24	F	1.15	CONT	96.3	-	F	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2000	1491.4	249.2	96.3	89.7
¾ Load	1500.00	1118.6	189.0	96.1	88.8
½ Load	1000.00	745.7	133.4	95.5	84.5
¼ Load	500.00	372.9	85.7	92.7	67.8
No Load			50.6		4.4
Locked Rotor			1596.30		16.1

Torque				Rotor wk² Inertia
Full Load (lb-ft)	**Locked Rotor (% FLT)**	**Pull Up (% FLT)**	**Break Down (% FLT)**	**(lb-ft²)**
5898	75	80	240	930.28

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	**Hot**		**DE**	**NDE**	**(lbs)**
35	15	-	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	7/10/2014	**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

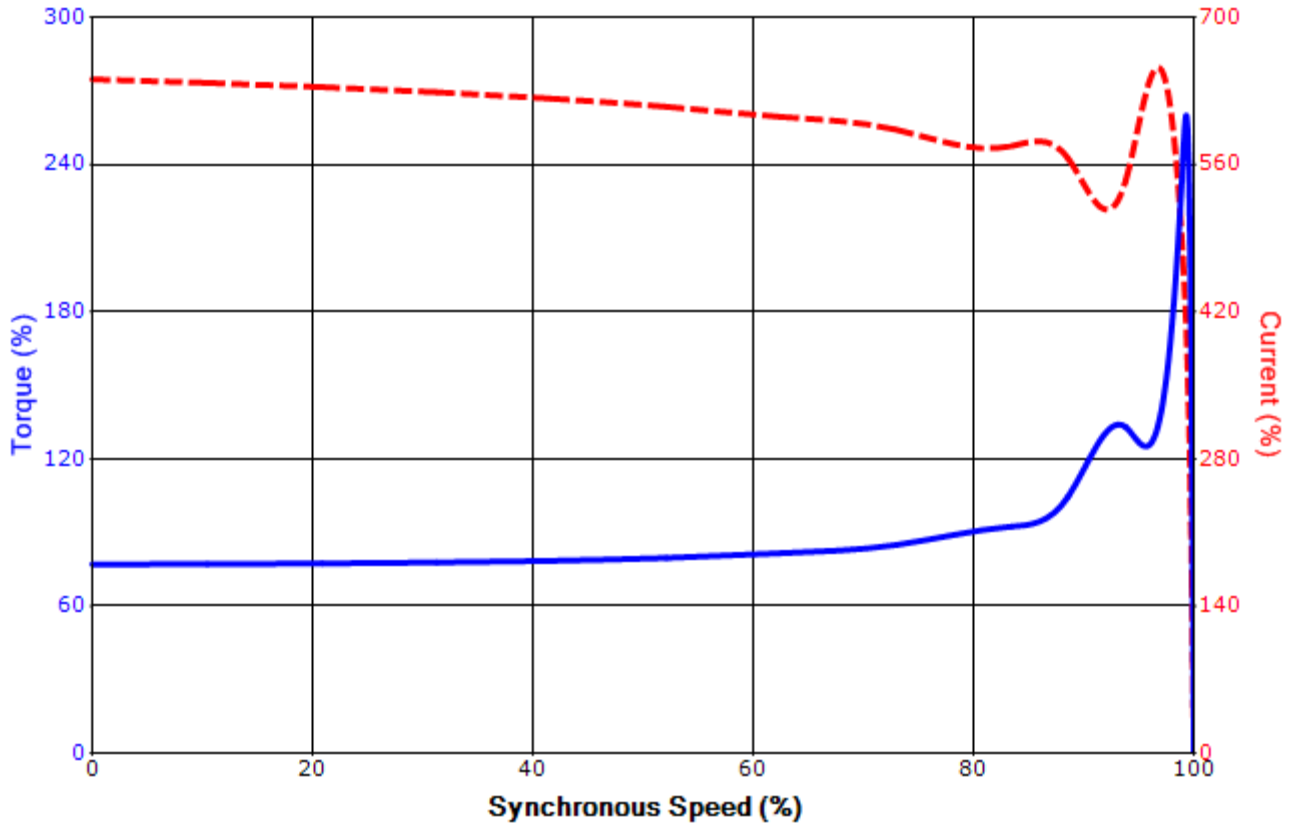
Model: M405WTQL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2000	1492	4	1781	6810US	4000	60	3	250

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	96.3	-	F	40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
1596.30	930.28	5898	75	80	240

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	7/10/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011