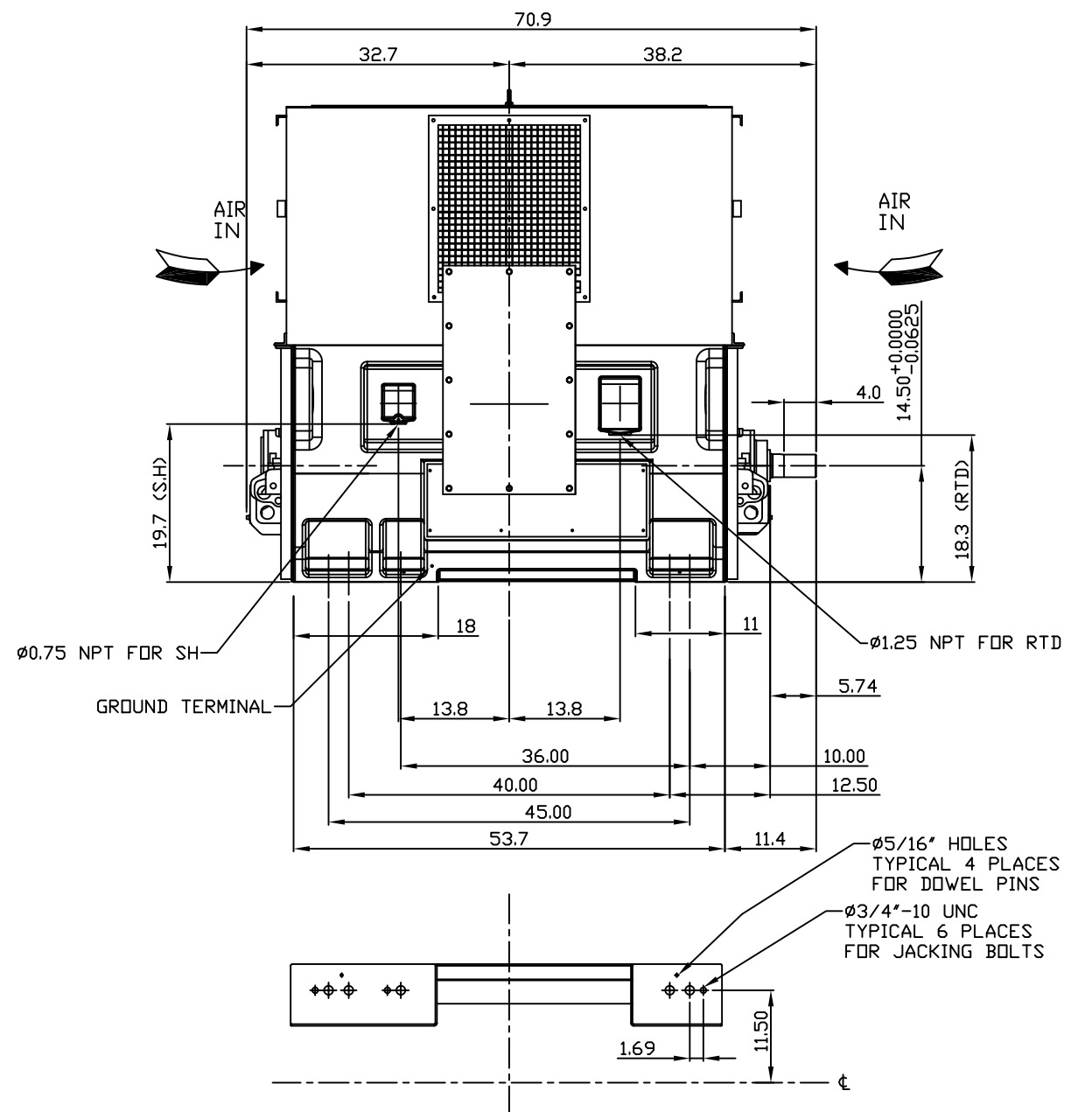
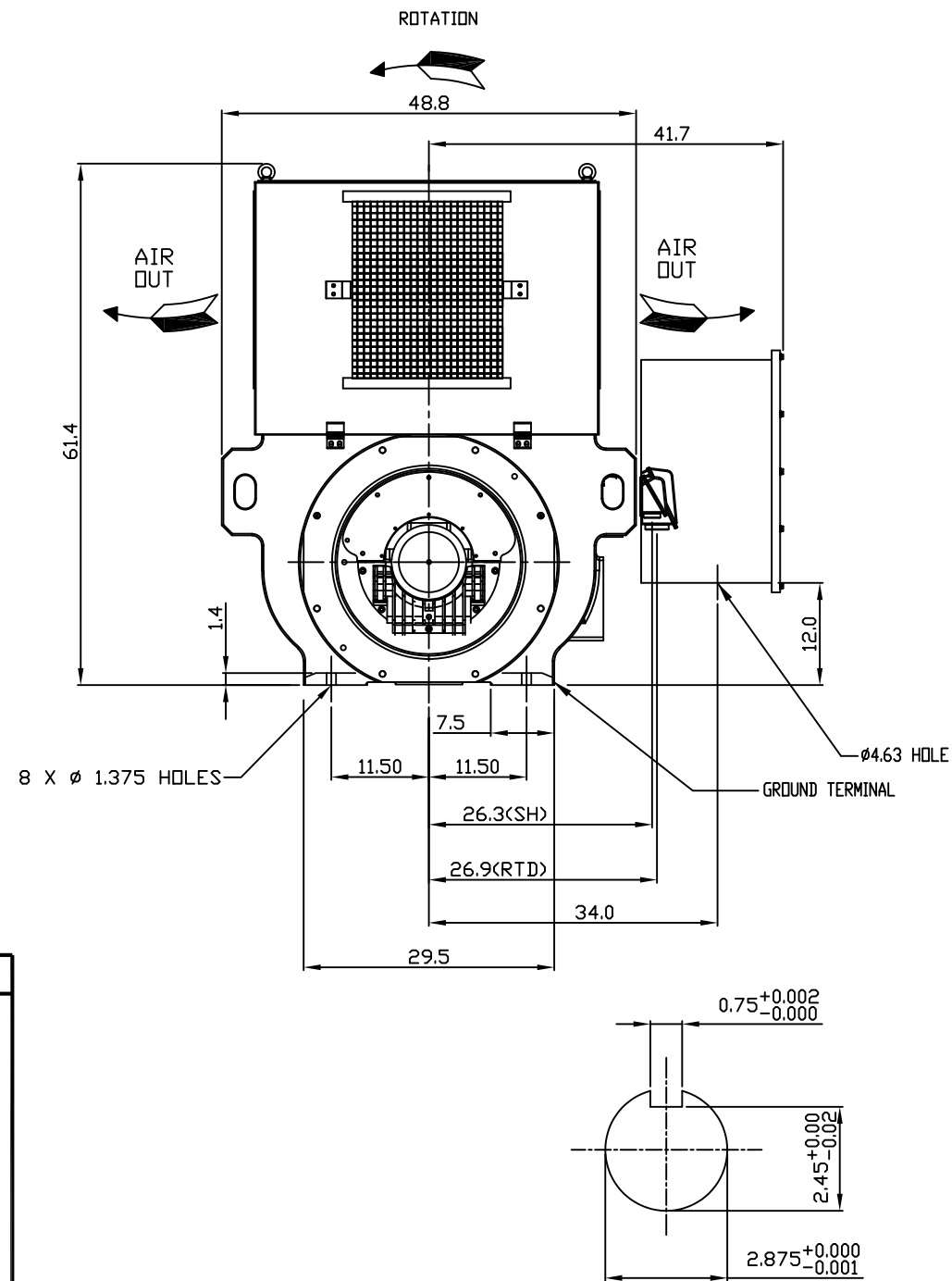




TECHNICAL INFORMATION

- BEARING LUBRICATION DE: TURBINE OIL ISO VG32
ODE: TURBINE OIL ISO VG32
- BEARING TYPE DE: M9-90-INS
ODE: M9-90-INS
- WINDING TEMP. DETECTORS
NUMBER AND TYPE: 6xRTD(Pt0°C-100ohm)
LOCATION: IN STATOR SLOT
- BEARING TEMP. DETECTORS
NUMBER AND TYPE: _____
- SPACE HEATER 1 PHASE
VOLTS: 120 WATTS: 400
- ROTATION: CCW VIEWED FROM NON DRIVE END
THIS MOTOR IS UNI DIRECTIONAL
- MOTOR PAINT COLOR: _____
- APPROX. WEIGHT: 7650 Lbs
- ACCESORIES:

DRAWING LIST

MAIN TERMINAL BOX
130-7532-02

AUX TERMINAL BOX FOR

SPACE HEATER	130-7520-50
R.T.D.	130-7522-51
THERMISTOR	N/A

PRODUCTION # N/A

5 CHANGE AUX BOX DIM FROM 14.6
CHANGE JACKING BOLTS FROM 4 HL 3/16/20

NO.	REVISION	BY	DATE
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MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR

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

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

3rd ANGLE PROJ.	PREPARED BY: R.WILKINS	DATE: 03/25/03	CHECKED BY: M. HO	DATE: 04/01/03	DRAWING NO.: MDSL 0087-11	REV. 5
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TYPICAL MOTOR PERFORMANCE DATA

Model: M253WTQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1250	933	2	3580	5812USS	4000	60	3	153
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	95.8	-	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	1250.00	932.1	153	96.1	91.5
¾ Load	937.50	699.1	117	95.8	89.5
½ Load	625.00	466.1	84	94.8	83.7
¼ Load	312.50	233.0	56	92.2	64.2
No Load			40.0		
Locked Rotor			1094		

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1834	130	135	345	192.31

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
12	6		M9-90 INS	M9-90 INS	7906

*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.

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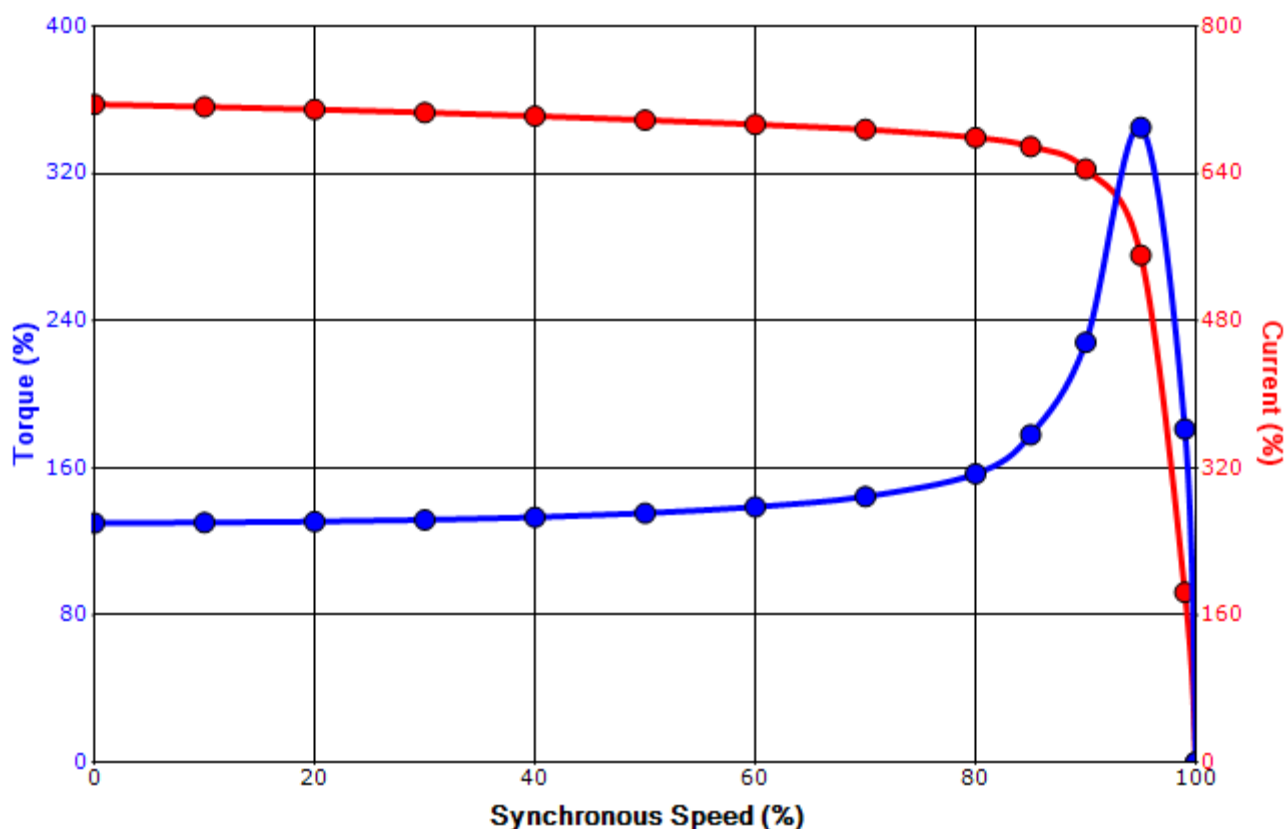
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	7/16/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: M253WTQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1250	933	2	3580	5812USS	4000	60	3	153
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	95.8	-	G	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)		Break Down (%)		
1094	192.31	1834	130	135		345		

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.

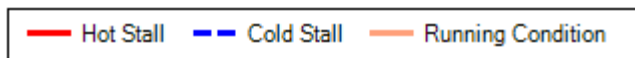
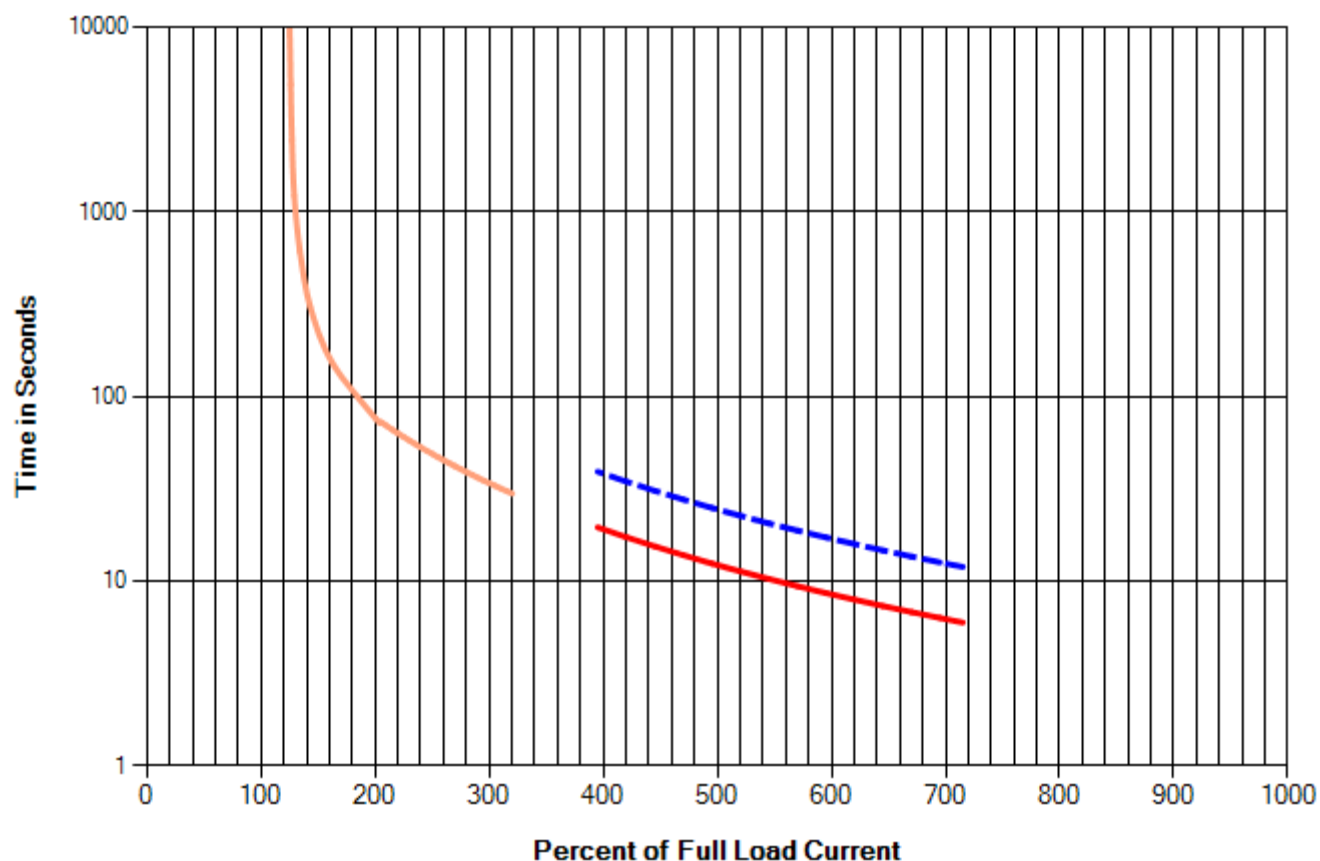
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	7/16/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

THERMAL LIMIT CURVE

Model: M253WTQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1250	933	2	3580	5812USS	4000	60	3	153
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	95.8	-	G	40 C

Thermal Limit



Customer			wk ² Load Inertia (lb-ft ²)	-
Customer PO			Load Type	-
Sales Order			Voltage (%)	100
Project #			Rotor wk ² Inertia (lb-ft ²)	192.31

Tag:

All characteristics are average expected values.

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

Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1122 / 0
Engr. Date	7/16/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Issued Date	6/23/2025	Transmit #	
Issued By	Kjones	Issued Rev	

NAMEPLATE DATA

Model: M253WTQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1250	933	2	3580	5812USS	4000	60	3	153
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	95.8	-	G	40 C

Type: TIKE

Form: DCW4

Drive End Bearing: M9-90 INS /

Non-Drive End Bearing: M9-90 INS /

Power Factor: 91.5

Max Safe RPM: -

Comments 1:

Comments 2:

Comments 3:

Comments 4:

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1120 / 0
Engr. Date	7/16/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

EQUIVALENT CIRCUIT DATA

All values are presented Equivalent Wye Connection, Per Phase

Model: M253WTQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1250	933	2	3580	5812USS	4000	60	3	153
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
WP-II	24	F	1.15	CONT	95.8	-	G	40 C

Base Impedance (Ohms): _____

Primary Resistance (R₁): _____ 0.119 Ohms/Phase

Secondary Resistance (R₂): _____ 0.09191 Ohms/Phase

Starting Resistance (R_s): _____ 0.2079 Ohms/Phase

Primary Reactance (X₁): _____ 1.283 Ohms/Phase

Secondary Reactance (X₂): _____ 0.9742 Ohms/Phase

Starting Reactance (X_s): _____ 2.241 Ohms/Phase

X/R Ratio: _____ 10.78 Radians

Magnetizing Reactance (X_m): _____ 57.74 Ohms/Phase

Transient Reactance (X_d): _____ 2.241 Ohms/Phase

Sub Transient Reactance (X_d''): _____ 0.03559 Ohms/Phase

Short Circuit AC Time Constant: _____ 1.003 seconds

Sub Transient Time Constant: _____ 0.03559 seconds

Open Circuit AC Time Constant: _____ 1.694 seconds

Stator Inductance (L₁): _____ 0.003403 Henries

Rotor Inductance (L₂): _____ 0.002584 Henries

Customer		
Customer PO		
Sales Order		
Project #		

Tag:

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

Engineering	jhock	Doc. Written By		Doc.# / Rev	
Engr. Date	7/16/2014	Doc. Approved By		Doc. Issued	