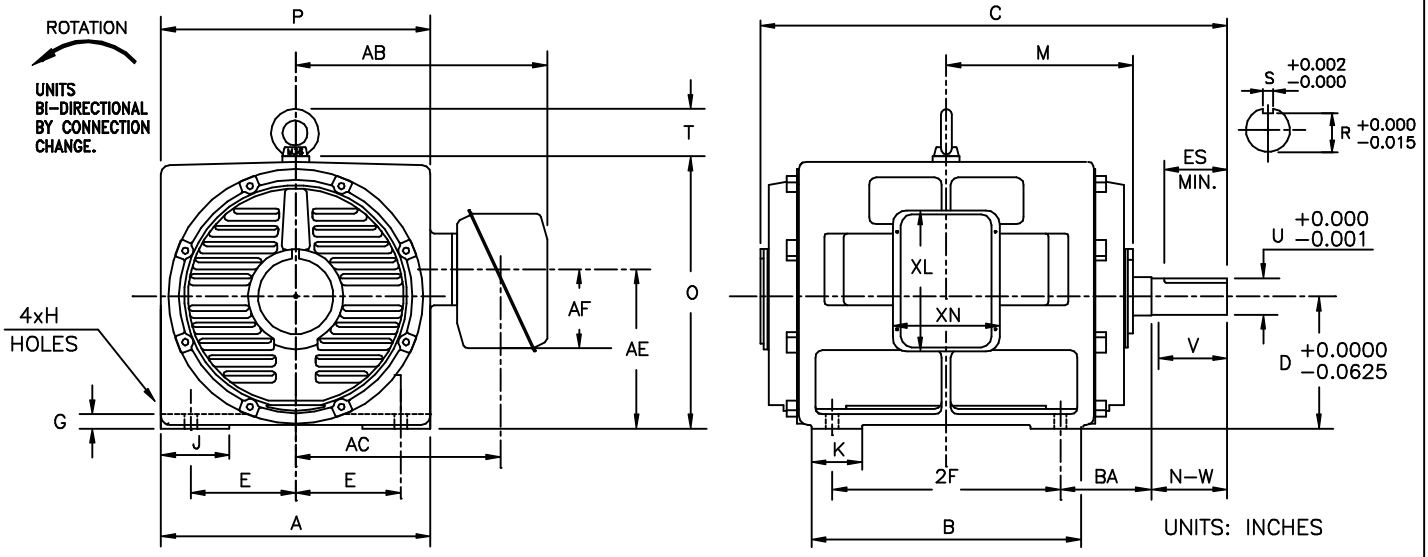
INDEX	MDSL0081-08
REV. LEVEL	1
SHEET	1 OF 1

TOSHIBA/HOUSTON

DRIP-PROOF HORIZONTAL FOOT-MOUNTED 2300/4160V STOCK MOTORS

Fr. 587-5810
6-8 POLE
DIRECT COUPLE



FRAME SIZE	MOUNTING				CONDUIT BOX						
	E	2F	H	BA	AA	AB	AC	AE	AF	XL	XN
587US	11.50	25.0	1.38	10.00	4.00	27.56	22.44	17.5	8.7	15.5	11.7
5810US	11.50	36.0	1.38	10.00	4.00	27.56	22.44	17.5	8.7	15.5	11.7

FRAME SIZE	MOTOR DIMENSIONS										
	A	B	C	D	G	J	K	M	O	P	T
587US	29.52	29.52	51.16	14.50	1.57	7.48	5.51	20.47	29.84	29.52	5.18
5810US	29.52	40.55	61.98	14.50	1.57	7.48	9.84	25.79	29.84	29.52	5.18

FRAME SIZE	SHAFT EXTENSION			KEY SEAT			BEARINGS		MAXIMUM WEIGHT
	N-W	V	U	R	S	ES	LS	OS	
587US	8.27	8.25	4.000	1.000	0.500	6.875	6322	6320	lbs.
5810US	8.27	8.25	4.000	1.000	0.500	6.875	6322	6320	lbs.

NOTES:
1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
2. CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS AND MAY BE MOUNTED ON OPPOSITE SIDE ON SPECIAL ORDER.
3. KEY DIMENSIONS EQUAL S x S x 3.00 (MOTOR SUPPLIED WITH KEY)
4. **MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.**

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE.
FOR CONSTRUCTION USE ONLY CERTIFIED DATA.

☐ FOR REFERENCE ☐ PRELIMINARY ☐ CERTIFIED

CUSTOMER: _____ P.O. NO.: _____ TAG NO.: _____

MOTOR MODEL NO.: _____ TOSHIBA FILE NO.: _____

HP: _____ RPM (SYN.): _____ VOLTAGE: _____ Hz: _____

FRAME SIZE: _____ LOG NO.: _____ LOG REV. LEVEL: _____

REMARKS: _____

PER: _____ ISSUE DATE: _____ SUPERSEDES: _____

SL008108

Issued Date	7/19/2021	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
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TYPICAL MOTOR PERFORMANCE DATA

Model: F9004VLF3JM

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900	671	4	1780	5810US	4000	60	3	115

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
ODP	12	F	1.15	CONT	94.5	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	900.00	671.1	114	94.6	89.4
¾ Load	675.00	503.3	87	94.3	88.2
½ Load	450.00	335.6	62	93.4	83.4
¼ Load	225.00	167.8	40	89.7	66.0
No Load			22.2		5.5
Locked Rotor			535		20.2

Torque				Rotor wk² Inertia
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	(lb-ft²)
2653	90	95	200	306.11

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	Hot		DE	NDE	(lbs)
54	12	-	6322C3	6320C3 INS	4312

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

Motor Options:
Product Family:ODP
Mounting:Footed,Shaft:US Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

Issued Date	7/19/2021	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

SPEED TORQUE/CURRENT CURVE

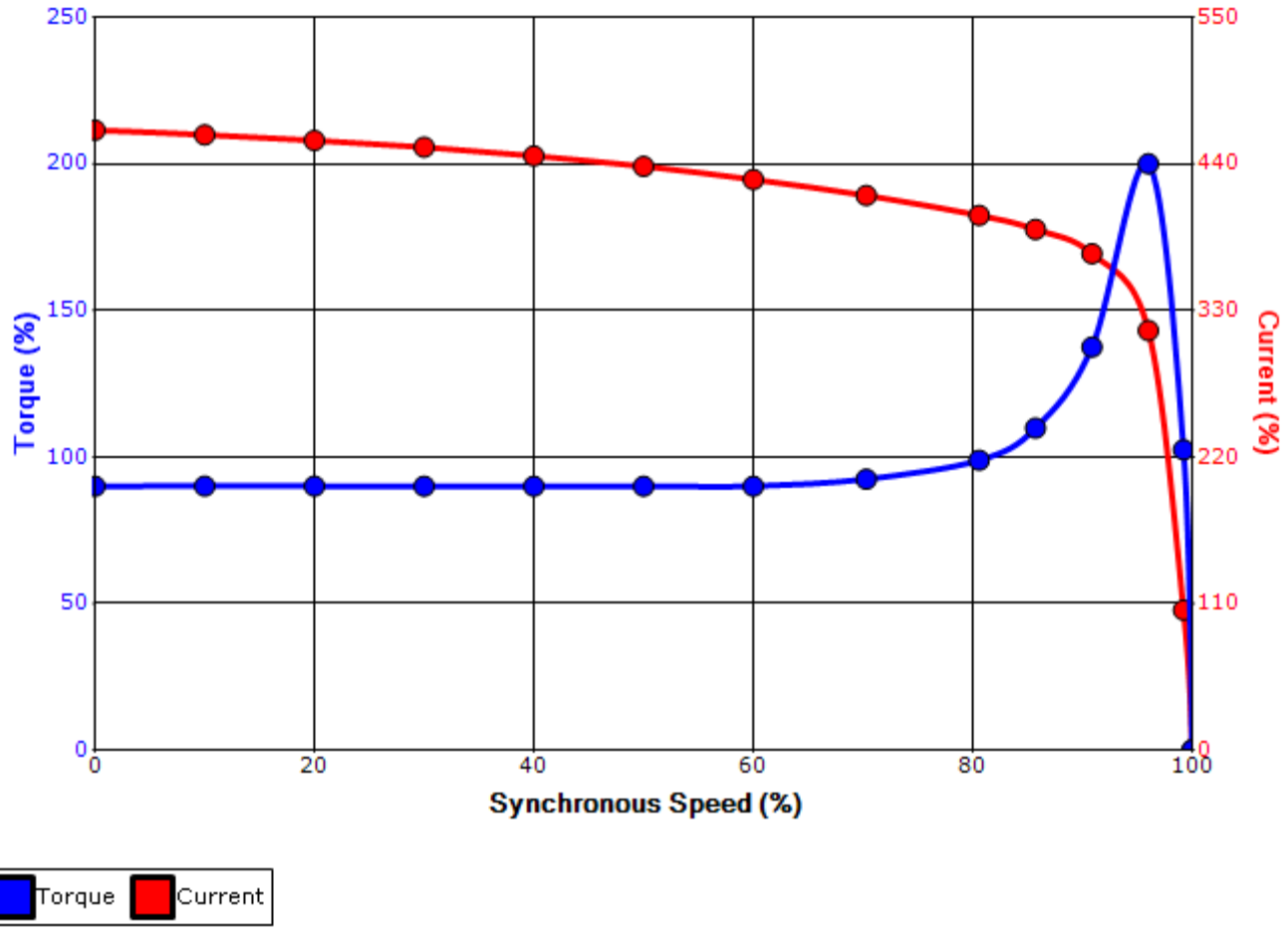
Model: F9004VLF3JM

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900	671	4	1780	5810US	4000	60	3	115

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
ODP	12	F	1.15	CONT	94.5	-		40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
535	306.11	2653	90	95	200

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.

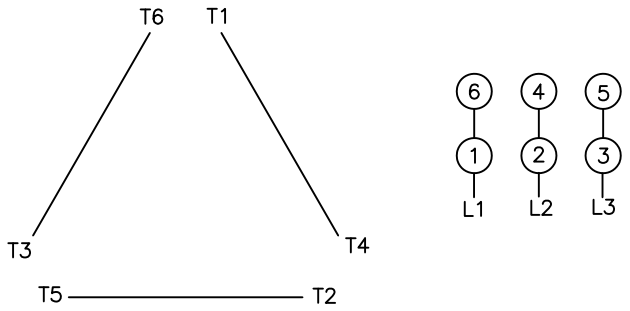
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

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

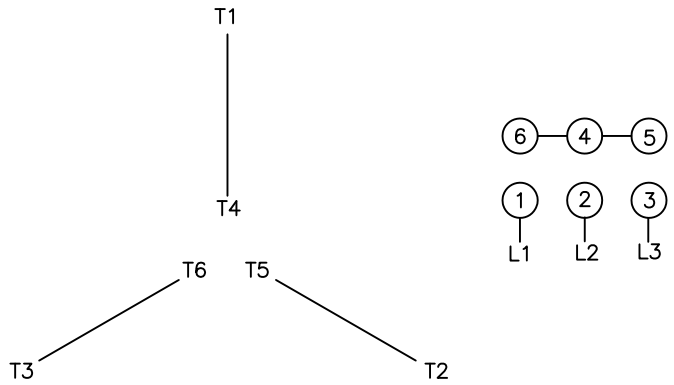
Motor Connection Diagrams
6 Leads

Across-the-Line Starting / Running Connections

Low Voltage – Delta



High Voltage – Wye



Switch L1 and L2 to reverse rotation