

UNITS: INCHES

FRAME SIZE	MOUNTING				CONDUIT BOX							
	E	2F	H	BA	AA	AB	AC	AE	AF	XL	XN	
505USS	10.00	18.00	0.94	8.50	4.00	30.6	22.9	15.6	10.1	28.6	16.6	
507USS	10.00	22.00	0.94	8.50	4.00	30.6	22.9	15.6	10.1	28.6	16.6	
509USS	10.00	28.00	0.94	8.50	4.00	30.6	22.9	15.6	10.1	28.6	16.6	

FRAME SIZE	MOTOR DIMENSIONS											
	A	B	C	D	G	J	K	M	O	P	T	
505USS	25.0	20.9	39.5	12.50	1.48	5.5	4.7	17.3	25.5	25.0	4.4	
507USS	25.0	24.8	43.5	12.50	1.48	5.5	4.7	19.3	25.5	25.0	4.4	
509USS	25.0	30.8	49.5	12.50	1.48	5.5	4.7	22.3	25.5	25.0	4.4	

FRAME SIZE	SHAFT EXTENSION			KEYWAY			BEARINGS		MAXIMUM WEIGHT
	N-W	V	U	R	S	ES	LS	OS	
505USS	4.75	4.50	2.375	2.021	0.625	3.03	6313C3	6313C3	2100 lbs.
507USS	4.75	4.50	2.375	2.021	0.625	3.03	6313C3	6313C3	2500 lbs.
509USS	4.75	4.50	2.375	2.021	0.625	3.03	6313C3	6313C3	2800 lbs.

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

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.

CERTIFIED DATA

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: _____

TYPICAL MOTOR PERFORMANCE DATA

Model: F4502VLG3JF

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	2	3570	509USS	2300/4160	60	3	97/56
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
ODP	12	F	1.15	CONT	93.6	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	450.00	335.6	56	94.3	88.0
¾ Load	337.50	251.7	42	94.0	87.0
½ Load	225.00	167.8	29	92.7	84.0
¼ Load	112.50	83.9	19.3	88.9	67.6
No Load			10.6		8.4
Locked Rotor			305		21.1

Torque				Rotor wk ²
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft ²)
662	110	85	180	94.16

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
16	5	-	6313C3	6313C3	2963

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

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

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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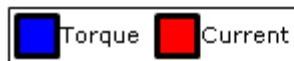
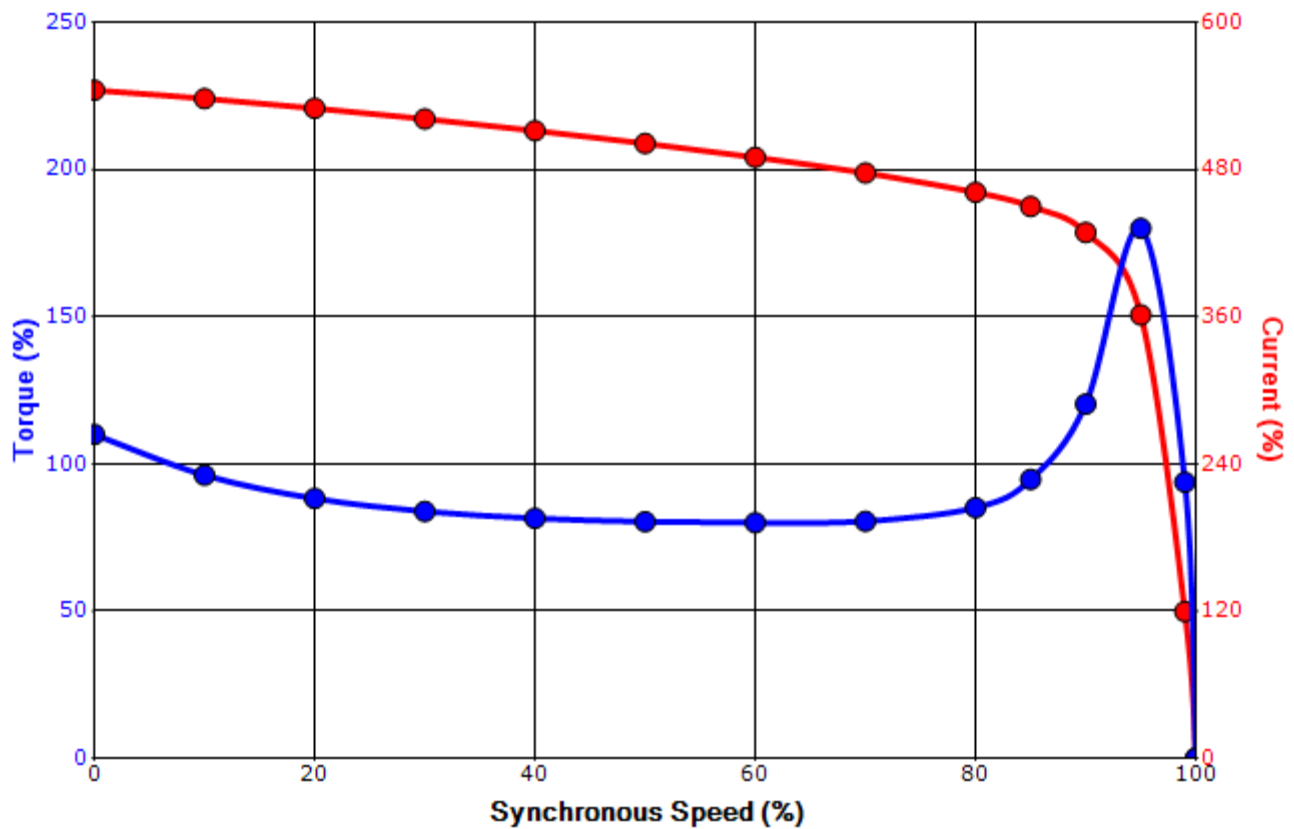
Engineering	gminetos	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	8/5/2013	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: F4502VLG3JF

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	2	3570	509USS	2300/4160	60	3	97/56
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
ODP	12	F	1.15	CONT	93.6	B		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)		Pull Up (%)			
305	94.16	662	110		85		180	

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.

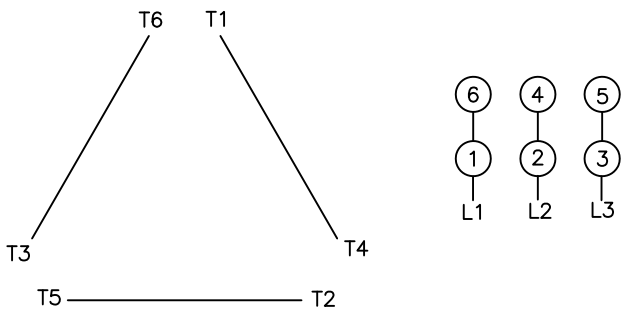
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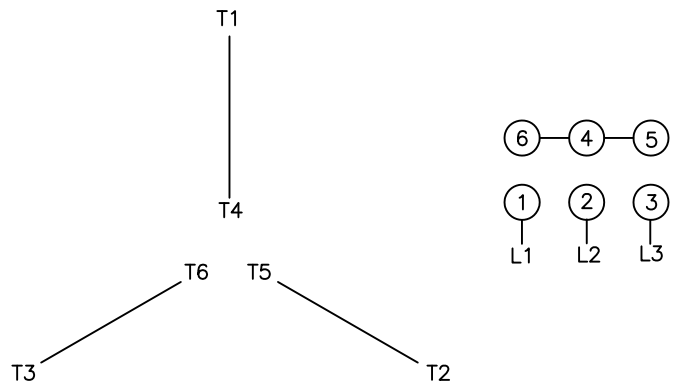
Motor Connection Diagrams 6 Leads

Across-the-Line Starting / Running Connections

Low Voltage – Delta



High Voltage – Wye



Switch L1 and L2 to reverse rotation