

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
  - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  - KEY DIMENSIONS EQUAL S x S x 10.00 FOR UZ, S x S x 5.00 FOR US, AND S x S x 3.00 FOR USS (MOTOR SUPPLIED WITH KEY)
  - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  - THIS DIMENSION EQUALS 2F FOR 5010USS/US/UZ MOUNTING
  - THIS DIMENSION EQUALS 2F FOR 5009USS/US/UZ MOUNTING
  - STANDARD 4~8 POLE PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
  - STANDARD 2 POLE PRODUCT USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE

FRAME SIZE	MOTOR DIMENSIONS											CONDUIT BOX							
	A	B	C	D	G	J	K	M	O	P	T	AA	AB	AC	AE	AF	XL	XN	
5009/10/11USS	24.8	42.6	64.2	12.50	1.4	6.3	14.4/7.1	26.8	26.4	32.5	5.0	4.00	31.3	24.0	20.2	8.7	23.4	18.9	
5009/10/11US	24.8	42.6	69.8	12.50	1.4	6.3	14.4/7.1	26.8	26.4	32.5	5.0	4.00	31.3	24.0	20.2	8.7	23.4	18.9	
5009/10/11UZ	24.8	42.6	75.1	12.50	1.4	6.3	14.4/7.1	26.8	26.4	32.5	5.0	4.00	31.3	24.0	20.2	8.7	23.4	18.9	

FRAME SIZE	MOUNTING					SHAFT EXTENSION					KEY SEAT			BEARINGS			MAXIMUM WEIGHT
	E	2F	H	BA	N-W	V	U	R	S	ES	LS	OS	LS	OS			
5009/10/11USS	10.00	28.00/32.00/36.00	1.125	8.50	4.75	4.50	2.375	2.021	0.625	3.03	6313C3	6313C3	6313C3	6313C3			
5009/10/11US	10.00	28.00/32.00/36.00	1.125	8.50	6.25	6.19	3.625	3.134	0.875	5.03	6320C3	6320C3	6320C3	5000 lbs.			
5009/10/11UZ	10.00	28.00/32.00/36.00	1.125	8.50	11.62	11.38	4.375	3.817	1.000	10.03	NU324C3	6320C3	6320C3	5000 lbs.			

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_ TAG NO's.: \_\_\_\_\_

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ HZ: \_\_\_\_\_

FRAME SIZE: 5009/5010/5011 PRODUCT TYPE: IEFC EFP III, EPACK, & HIGH EFFICIENCY

COMMENTS: \_\_\_\_\_

PER: \_\_\_\_\_ DATE: \_\_\_\_\_

STANDARD (NO AUX. BOXES)

RTD AUX. BOX

SPACE HEATER AUX. BOX

BEARING RTD's

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE  PRELIMINARY

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**TOSHIBA**

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY-ENCLOSED FAN-COOLED HORIZONTAL FOOT-MOUNTED 3 PHASE INDUCTION MOTOR F1 ASSEMBLY

**XT SERIES**

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**TYPICAL MOTOR PERFORMANCE DATA**

Model: 4503FTAC41F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	2	3580	5011USS	575	60	3	394
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.8	B	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	450	335.6	394.0	95.9	88.9
¾ Load	337.50	251.7	302.8	95.0	88.0
½ Load	225.00	167.8	214.6	93.1	84.6
¼ Load	112.50	83.9	135.8	87.4	71.0
No Load			82.0		5.8
Locked Rotor			2600.00		29.5

Torque				Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
660	200	120	280	138.54

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
34	12	-	6313C3	6313C3	

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

**Motor Options:**  
Product Family:EQP Global SD  
Mounting:Footed,Shaft:USS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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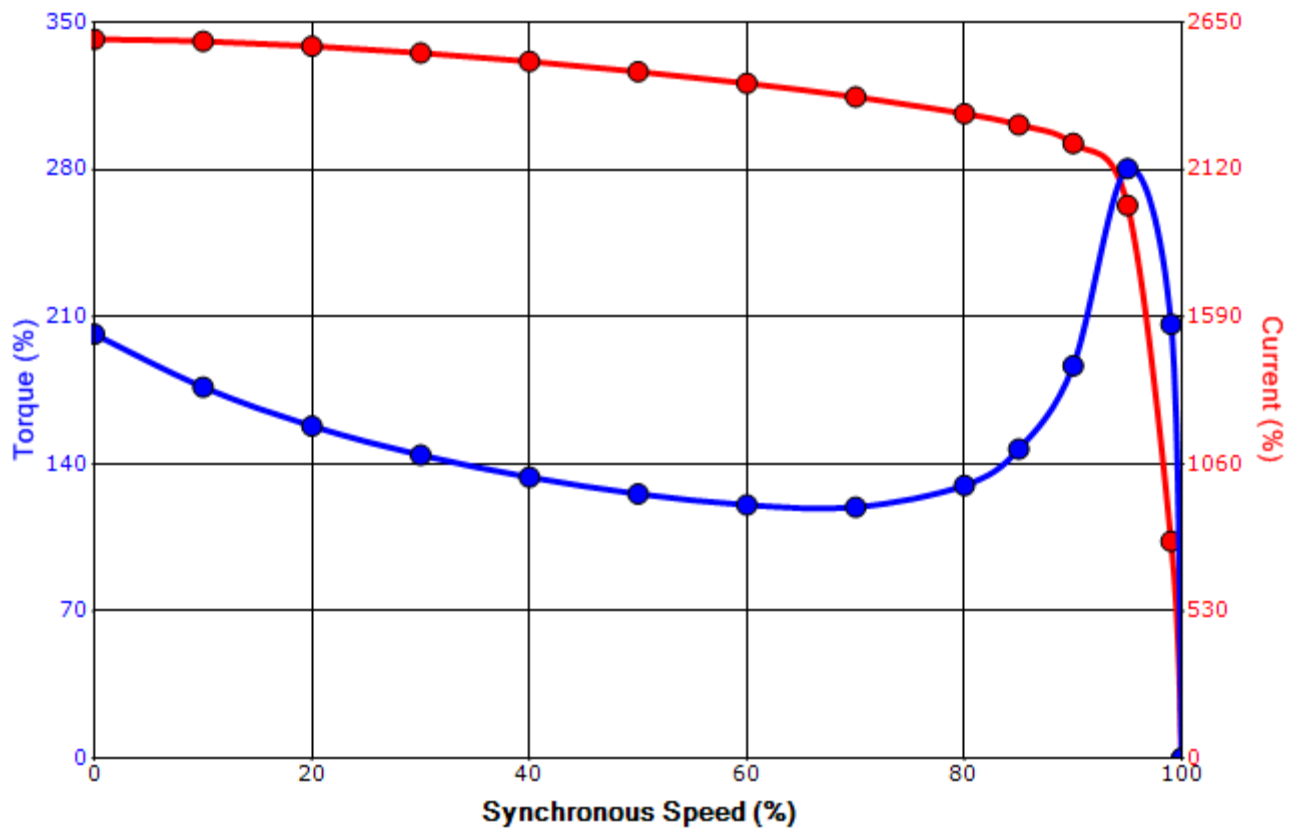
Engineering	garce	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	8/21/2015	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 4503FTAC41F-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	2	3580	5011USS	575	60	3	394
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.8	B	G	40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
2600.00	138.54	660	200	120			280	

**Design Values**



Customer		wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> )	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

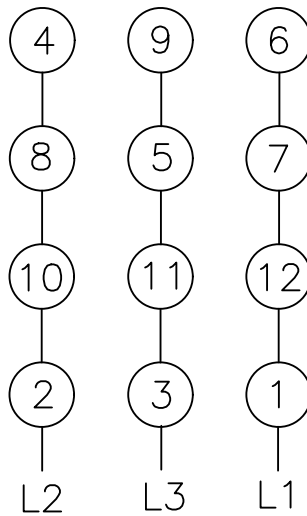
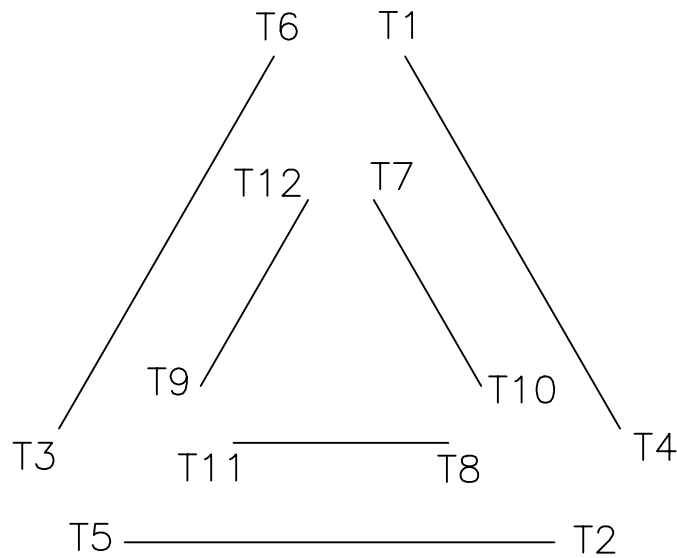
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Engineering	garce	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
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# Motor Connection Diagram

## 12 Leads

### Single Voltage



Switch L1 and L2 to reverse rotation