

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS										CONDUIT BOX							
	A	B	C	D	G	J	K	M	O	P	T	AA	AB	AC	AE	AF	XL	XN
5810US	29.6	40.6	64.4	14.50	1.6	7.5	9.9	25.8	29.3	29.6	5.8	4.00	34.5	26.8	17.5	11.2	28.7	16.7
5810UZ	29.6	40.6	67.8	14.50	1.6	7.5	9.9	25.8	29.3	29.6	5.8	4.00	34.5	26.8	17.5	11.2	28.7	16.7
FRAME SIZE	MOUNTING					SHAFT EXTENSION					KEY SEAT			BEARINGS			MAXIMUM WEIGHT	
5810US	E	2F	H	BA	BA	N-W	V	U	R	S	ES	LS	OS			4800 lbs.		
5810UZ	11.5	36.00	1.38	10.0	10.0	8.27	8.00	4.000	3.436	1.000	6.90	6322C3	6320C3*					
	11.5	36.00	1.38	10.0	10.0	11.63	11.38	5.375	4.676	1.250	10.00	NU2232C3	6320C3*					

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

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ HZ: \_\_\_\_\_  
 FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: ODP EQP III, EPACT, & HIGH EFFICIENCY  
 COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 PER: \_\_\_\_\_ DATE: \_\_\_\_\_

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE  PRELIMINARY  
 DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED  CERTIFIED

- STANDARD (NO AUX. BOXES)
- RTD AUX. BOX
- SPACE HEATER AUX. BOX
- BEARING RTD's

- 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 6.88 FOR US AND S x S x 10.00 (MOTOR SUPPLIED WITH KEY)
  - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  - OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
  - \*INSULATED BEARING

**TOSHIBA**  
 OPEN DRIP-PROOF  
 HORIZONTAL FOOT-MOUNTED  
 3 PHASE INDUCTION MOTOR  
 F1 ASSEMBLY

**XT SERIES**  
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Issued Date	9/24/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

### TYPICAL MOTOR PERFORMANCE DATA

Model: F7006VKG3OM

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
700	522	6	1190	5810US	575	60	3	788
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
ODP	22	F	1.15	CONT	95.8	-	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	700	522.0	788.2	95.8	69.4
¾ Load	525.00	391.5	648.7	95.4	63.5
½ Load	350.00	261.0	532.0	94.3	52.3
¼ Load	175.00	130.5	452.0	90.3	32.1
No Load			417.6		1.6
Locked Rotor			4057.7		30.4

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)	
3089	195	140	215	386.77

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
12.2	3.3	-	6322C3	6320C3 INS	

\*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.

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

Engineering	bmmamen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1
Engr. Date	1/8/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019



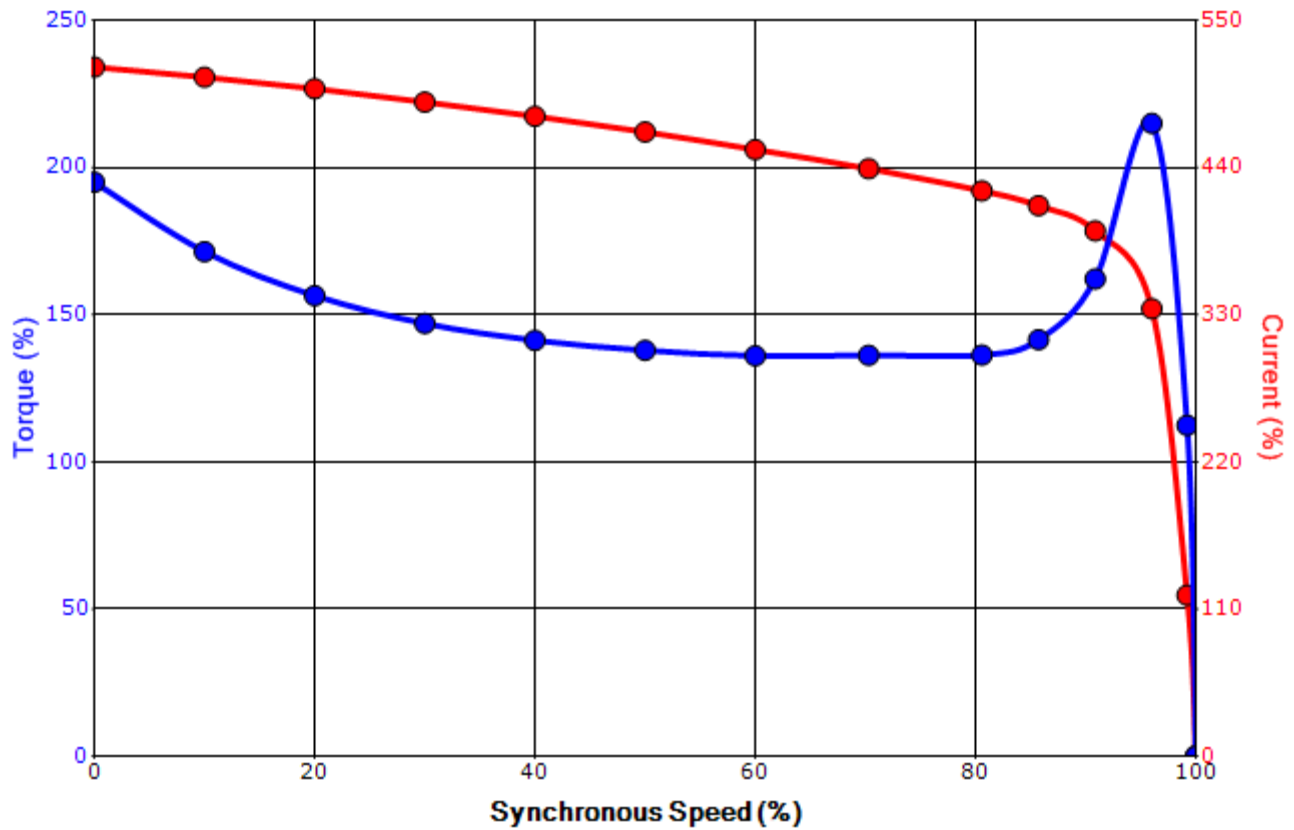
Issued Date	9/24/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

### SPEED TORQUE/CURRENT CURVE

Model: F7006VKG30M

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
700	522	6	1190	5810US	575	60	3	788
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
ODP	22	F	1.15	CONT	95.8	-	G	40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque				Pull Up (%)	Break Down (%)	
		Full Load (lb-ft)	Locked Rotor (%)					
4057.7	386.77	3089	195		140	215		

### 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	-

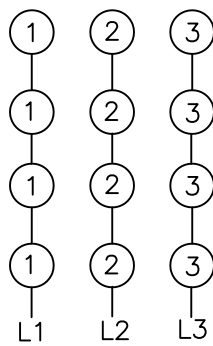
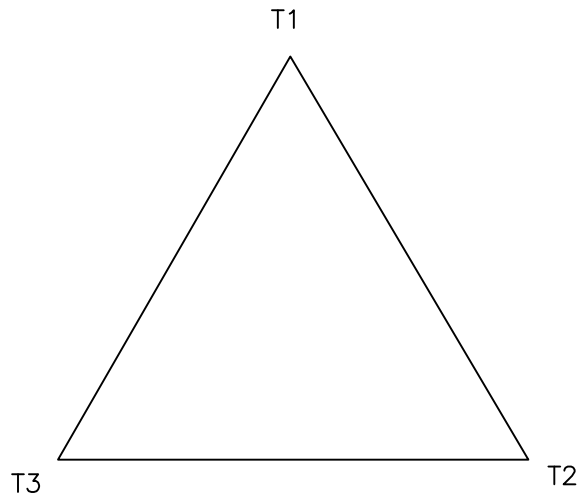
Tag:

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

Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1
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**Motor Connection Diagrams**  
12 Leads - CLOSED DELTA Connection  
Single Voltage



Switch L1 and L2 to reverse rotation