

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS					P-FLANGE DIMENSIONS						CONDUIT BOX DIMENSIONS						
	AG	C	P	OX	BU	BB	BE	BF	BD	BV	AK	AJ	AA[NPT]	AB	AC	AF	XL	XN
210HP10/LP10	26.9	29.7	11.8	12.6	45°	0.25	0.91	0.40	10.0	9.3	8.25	9.125	1.00	10.7	8.3	4.0	7.4	5.3

FRAME SIZE	SHAFT EXTENSION DIMENSIONS								BEARINGS		MAXIMUM WEIGHT	
	AH	EU	U	V	R	S	ES	EW	EX	LS		OS
210HP10	2.75	0.875	1.125	2.75	0.986	0.25	1.28	0.375	0.75	6309C3	6308C3	250 lbs.
210LP10	2.75	1.250	1.625	2.75	1.416	0.38	1.28	0.375	0.75	6309C3	7308BEGAM x 2	

NOTES:

1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
3. KEY DIMENSIONS EQUAL S x S x ES (MOTOR SUPPLIED WITH KEY)
4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
5. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_

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

FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: VERTICAL SOLID SHAFT ROUND BODY P-FLANGE

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

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

TAG NO's.: \_\_\_\_\_

- 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

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED  CERTIFIED

# TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY-ENCLOSED FAN-COOLED  
VERTICAL SOLID SHAFT ROUND BODY P-FLANGE  
3 PHASE INDUCTION MOTOR  
F1 ASSEMBLY

## XT SERIES

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**TYPICAL MOTOR PERFORMANCE DATA**

Model: 0102FTVB3PX-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
10	7.5	2	3510	210LP10	460	60	3	11.4
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	90.2	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	10.00	7.5	11.4	90.1	89.7
¾ Load	7.50	5.6	8.8	91.0	87.6
½ Load	5.00	3.7	6.4	91.1	81.7
¼ Load	2.50	1.9	4.5	81.7	63.1
No Load			2.9		53.6
Locked Rotor			81		34.5

Torque				Rotor wk <sup>2</sup>
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft <sup>2</sup> )
15.0	210	220	300	0.64

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
21	7	-	6309C3	7308B	250

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

**Motor Options:**  
Product Family:EQPIII Vertical Medium Thrust  
Mounting:10 P-Base (180-280 Frame),Shaft:LP Solid Shaft Medium Thrust

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

Engineering	gminetos	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	7/23/2013	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

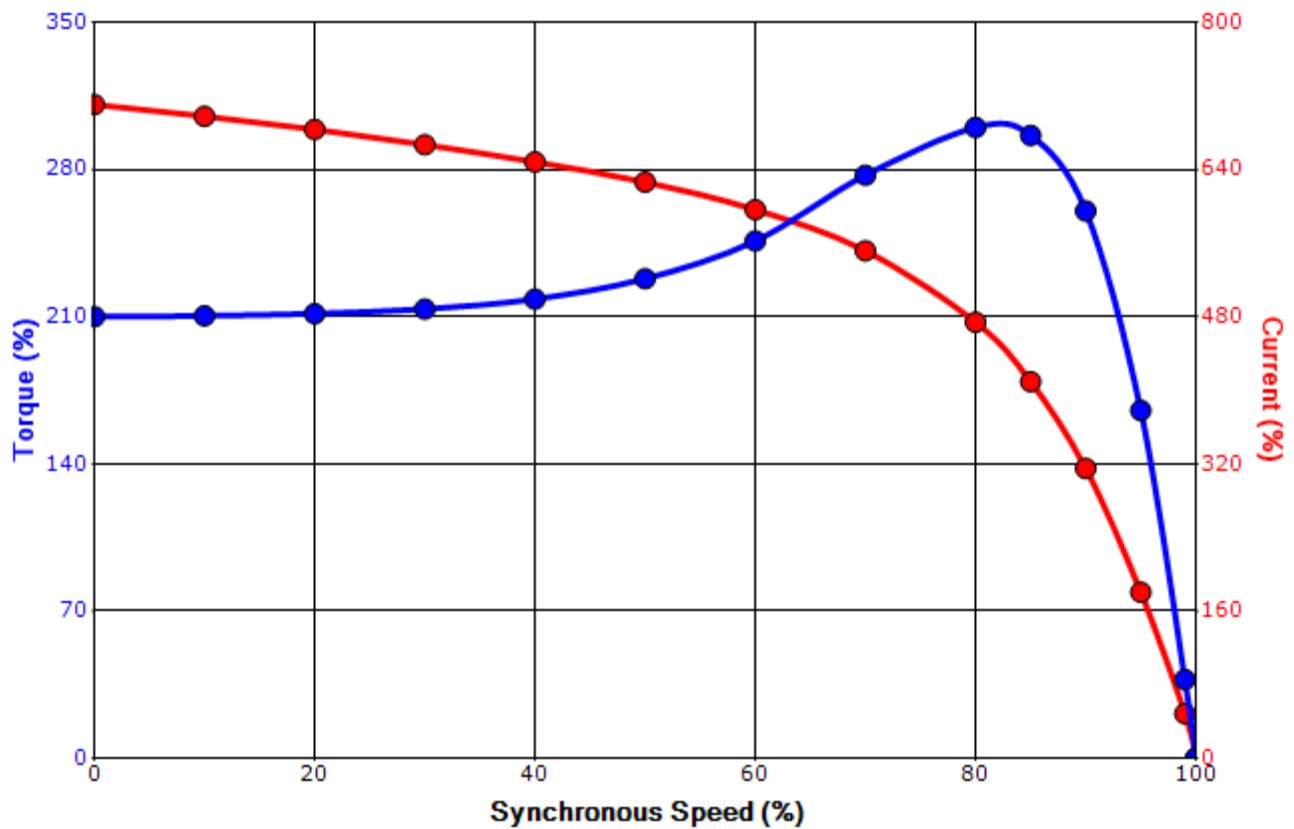
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Issued By	dschoeck	Issued Rev	

**SPEED TORQUE/CURRENT CURVE**

Model: 0102FTVB3PX-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
10	7.5	2	3510	210LP10	460	60	3	11.4
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	90.2	B		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 (%)				
81	0.64	15.0	210	220			300	

**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.

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

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### Motor Connection Diagram 3 Leads - Delta Connection



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.  
If multiple cables represent a single lead, each one  
of them will be labeled with the appropriate lead number.