



UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS										CONDUIT BOX								
	A	B	C	D	G	J	K	M	O	P	T	AM[PT]	AB	AC	AE	AF	XL	XN	
5010USS	24.8	39.8	64.9	12.50	2.6	6.3	6.7	24.8	26.2	29.5	5.1	4.00	24.8	20.4	12.5	9.2	15.2	10.2	
5010US	24.8	39.8	66.3	12.50	2.6	6.3	6.7	24.8	26.2	29.5	5.1	4.00	24.8	20.4	12.5	9.2	15.2	10.2	
5010UZ	24.8	39.8	71.7	12.50	2.6	6.3	6.7	24.8	26.2	29.5	5.1	4.00	24.8	20.4	12.5	9.2	15.2	10.2	
FRAME SIZE	MOUNTING										KEY SEAT						BEARINGS		MAXIMUM WEIGHT
E	ZF	H	BA	N-W	V	U	R	S	ES	LS	OS								
5010USS	10.00	32.00	1.2	8.50	4.75	4.50	2.375	2.021	0.625	3.00	6313C3	6313C3	NU313C3	6320C3	6320C3	4650	lbs.		
5010US	10.00	32.00	1.2	8.50	6.25	6.19	3.625	3.134	0.875	5.00	6320C3	6320C3	6320C3	6320C3	6320C3				
5010UZ	10.00	32.00	1.2	8.50	11.62	11.38	4.375	3.817	1.000	10.00	NU324C3	6324C3	6320C3	6320C3					

TAG NO's: . . . . .

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_  
 P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN): \_\_\_\_\_ HZ: \_\_\_\_\_  
 FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: IEF3 EQP III 840 & 841  
 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 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
  - STANDARD 4-8 POLE PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
  - STANDARD 2 POLE PRODUCT USES UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE

**TOSHIBA**  
 TOSHIBA INTERNATIONAL CORPORATION

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

**XT SERIES**  
 VISIT OUR WEBSITE AT:  
 www.toshiba.com/ind

**TYPICAL MOTOR PERFORMANCE DATA**

Model: B3001FLG8BMHD

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
300	224	2	3580	5010USS	460	60	3	321
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		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	300.00	223.7	321	96.4	90.7
¾ Load	225.00	167.8	245	95.5	89.7
½ Load	150.00	111.9	173	93.6	86.4
¼ Load	75.00	55.9	108	88.1	73.3
No Load			61.0		15.4
Locked Rotor			2200		22.2

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)	
440	155	105	265	117.40

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
21	11	-	NU313C3	6313C3	

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

**Motor Options:**  
Product Family:EQP Global 840  
Mounting:Footed,Shaft:USS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

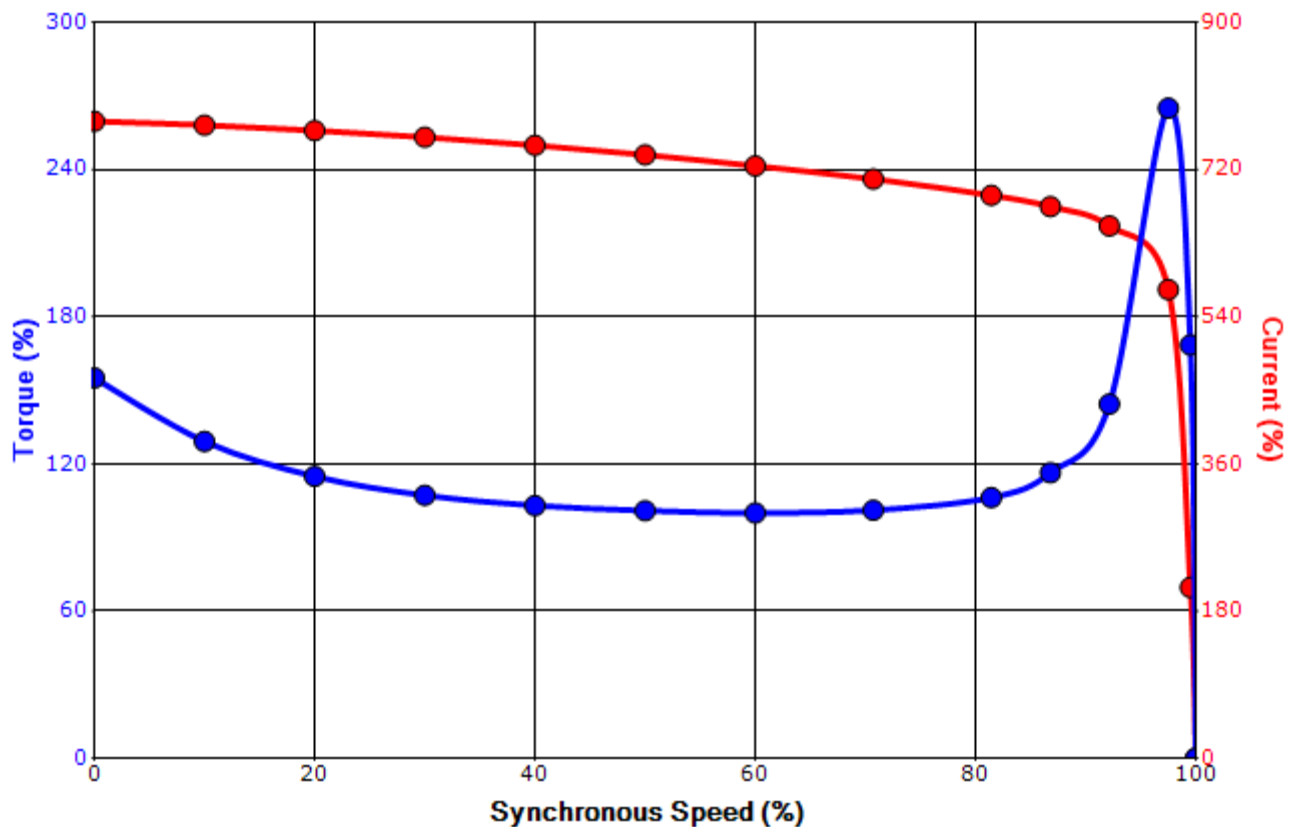
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	3/30/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: B3001FLG8BMHD

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
300	224	2	3580	5010USS	460	60	3	321
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		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 (%)				
2200	117.40	440	155	105			265	

**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.**

Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	3/30/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**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.