

- 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 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)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. THIS DIMENSION EQUALS 2F FOR 5010USS/US/UZ MOUNTING
  6. THIS DIMENSION EQUALS 2F FOR 5009USS/US/UZ MOUNTING
  7. STANDARD 4~8 POLE PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
  8. 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	72.9	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	78.5	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	83.8	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	

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	6320C3			
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	5350 lb			

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

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

FRAME SIZE: 5009/5010/5011 \_\_\_\_\_ PRODUCT TYPE: IEFC EOP 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

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

**TOSHIBA**  
TOSHIBA INTERNATIONAL CORPORATION

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

STANDARD (NO AUX. BOXES)

RTD AUX. BOX

SPACE HEATER AUX. BOX

BEARING RTD's

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 5004XSSB41G-AR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
500	373	4	1785	5011UZ	460	60	3	564
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	96.2	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	500.00	372.9	563	96.2	86.3
¾ Load	375.00	279.6	434	95.7	84.5
½ Load	250.00	186.4	314	94.4	78.9
¼ Load	125.00	93.2	212	90.2	61.1
No Load			146.3		4.4
Locked Rotor			3534		31.0

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)	
1471	210	145	245	232.77

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
17	6	-	NU324C3	6320C3	

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

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

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

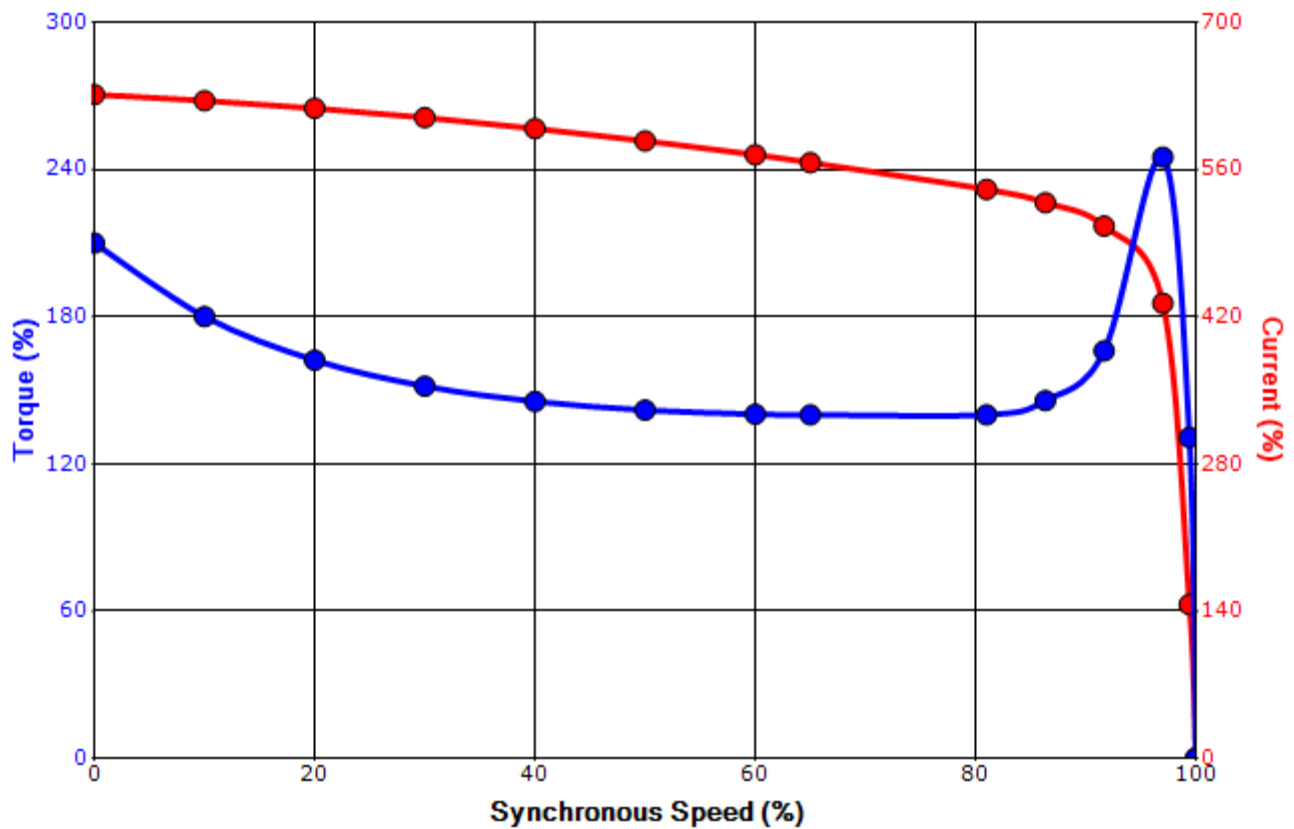
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	6/10/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 5004XSSB41G-AR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
500	373	4	1785	5011UZ	460	60	3	564
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	96.2	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 (%)				
3534	232.77	1471	210	145			245	

**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	-

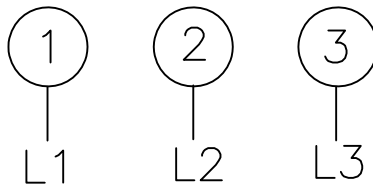
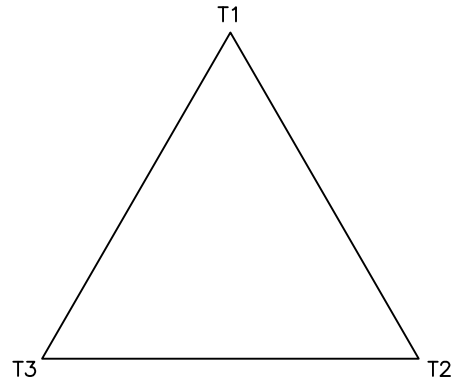
Tag:

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	6/10/2021	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.