

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
5809/10/11USS	28.0	50.3	76.3	14.50	1.6	6.3	16.5/11.4	29.7	29.7	35.0	4.8	4.00	31.3	24.0	23.8	8.7	23.4	18.9
5809/10/11US	28.0	50.3	76.8	14.50	1.6	6.3	16.5/11.4	29.7	29.7	35.0	4.8	4.00	31.3	24.0	23.8	8.7	23.4	18.9
5809/10/11UZ	28.0	50.3	82.2	14.50	1.6	6.3	16.5/11.4	29.7	29.7	35.0	4.8	4.00	31.3	24.0	23.8	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	
5809/10/11USS	11.50	32.00/36.00/40.00	1.125	10.00	5.74	5.65	2.625	2.275	0.625	3.03	6315C3	6315C3	7000 lbs.
5809/10/11US	11.50	32.00/36.00/40.00	1.125	10.00	6.25	6.19	4.000	3.436	1.000	5.03	6322C3	6322C3	
5809/10/11UZ	11.50	32.00/36.00/40.00	1.125	10.00	11.62	11.38	5.250	4.550	1.250	10.03	NU328C3	6322C3	

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 5810USS/US/UZ MOUNTING
6. THIS DIMENSION EQUALS 2F FOR 5809USS/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

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

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

FRAME SIZE: 5809/5810/5811 PRODUCT TYPE: TEFC EQP III, EPACKT, & HIGH EFFICIENCY

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

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

TAG No's.:

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

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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: 8004FTAB11E-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
800	597	4	1790	5811US	460	60	3	888
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.4	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	800.00	596.6	888	95.7	88.1
¾ Load	600.00	447.4	682	95.0	86.6
½ Load	400.00	298.3	491	93.4	81.6
¼ Load	200.00	149.1	326	88.4	64.9
No Load			216.1		6.7
Locked Rotor			6129		33.5

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> )
2347	250	220	290	411.86

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
14	6	-	6322C3	6322C3	7000

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

**Motor Options:**  
Product Family:EQP Global SD  
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.**

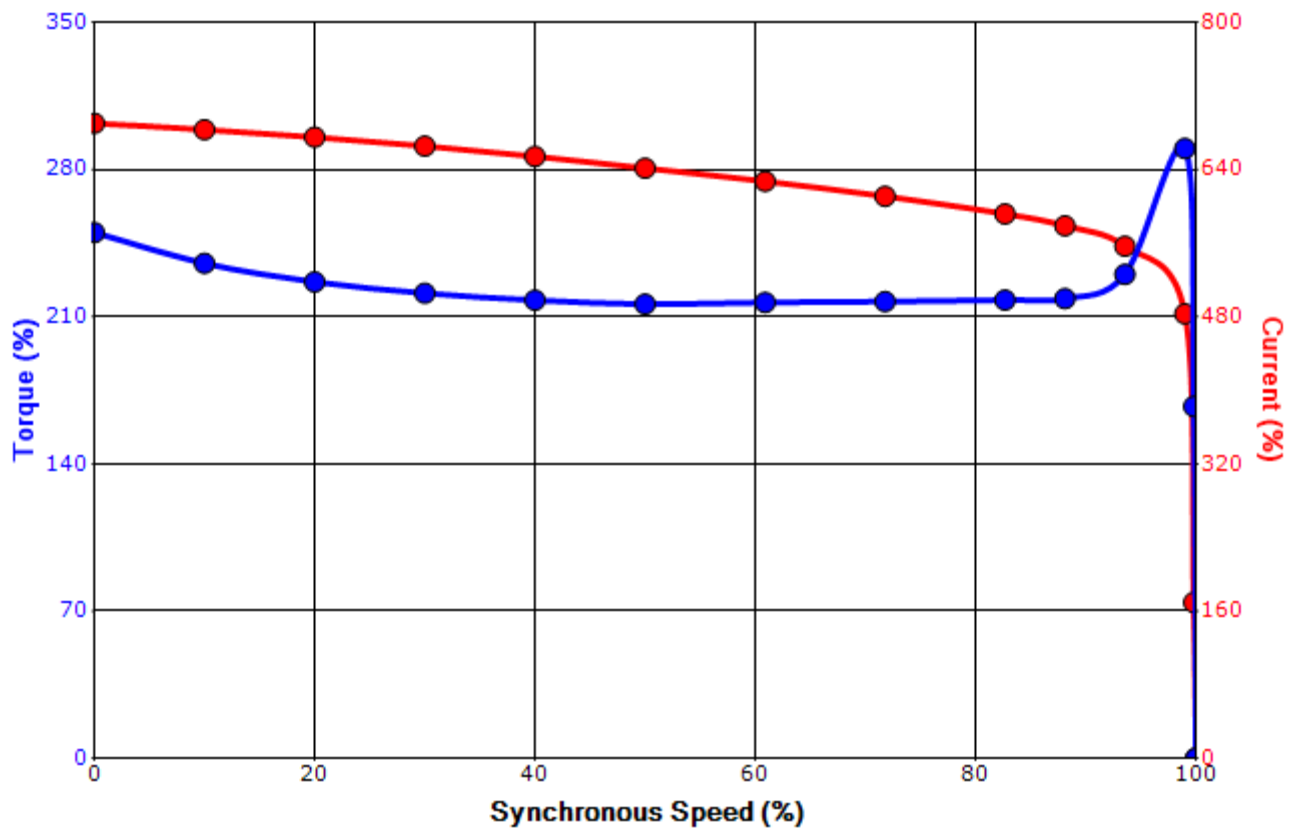
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	4/26/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 8004FTAB11E-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
800	597	4	1790	5811US	460	60	3	888
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.4	-		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 (%)				
6129	411.86	2347	250	220			290	

**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	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	4/26/2021	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.