

UNITS: INCHES

FRAME	SIZE	5810USS	5810US	5810UZ	FRAME	SIZE	5810USS	5810US	5810UZ
	Α	28.0	28.0	28.0		Е	11.50	11.50	11.50 36.00/32.00 1.2 10.00 11.62 11.38 5.250 4.550 1.250 10.00 NU328C3 6320C3 7800 bs.
	В	42.2	28.0 42.2 72.3 14.50 1.6 6.3 9.3 27.6 30.5 31.6 5.1	42.2	×	2F	36.00/	36.00/	36.00/
	С	72.5	72.3	77.6	MOUNTING	F	/32.00	/32.00	/32.00
	C D	14.50	14.50	14.50	G	H	1.2	1.2	1.2
MOTOR DIMENSIONS	G	1.6	1.6	1.6		BA	10.00	10.00	10.00
DIMEN	ſ	6.3	6.3	6.3	SHAF	N-W	6.75	6.25	11.62
SNOIS	_	9.3	9.3	9.3	SHAFT EXTENSION	<	6.50	6.19	11.38
	×	27.6	27.6	27.6	NOIS	c	2.375	3.625	5.250
	0	30.5	30.5	30.5	_	Z)	2.021	3.134	4.550
	P	31.6	31.6	31.6	KEY SEAT	S	0.625	0.875	1.250
	Т	5.1	5.1	5.1	Ţ	ES	5.00	5.00	10.00
	AA[NPT] AB	28.0 42.2 72.5 14.50 1.6 6.3 9.3 27.6 30.5 31.6 5.1 4.00 31.1 23.8 14.5	4.00 31.1 23.8 14.5	28.0 42.2 77.6 14.50 1.6 6.3 9.3 27.6 30.5 31.6 5.1 4.00 31.1 23.8 14.5	п	SJ	11.50 36.00/32.00 1.2 10.00 6.75 6.50 2.375 2.021 0.625 5.00 6313C3 NU313C3 780	11.50 36.00/32.00 1.2 10.00 6.25 6.19 3.625 3.134 0.875 5.00 632003 632003	325NN
	ΑB	31.1	31.1	31.1	BEARINGS		33 NI	3 6	C3 6
CON	AC	23.8	23.8	23.8	Š	S	J313C3	320C3	320C3
CONDUIT E	ΑE	14.5	14.5	14.5	MAX	WEIGHT	780C	780	780C
BOX	ΑF	9.3	9.3	9.3	MOM	꿐	00 lbs.)0 lbs.	lbs.
	XL	9.3 23.4 14.2	23.4	23.4					
	X	14.2	14.2	14.2					

NOTES:

- DIMENSION V REPRESENTS LENGTH
 OF STRAIGHT PART OF SHAFT
 MAIN CONDUIT BOX MAY BE ROTATED
- . KEY DIMENSIONS EQUAL S x S x 10.00 FOR UZ AND S x S x 5.00 FOR US (MOTOR SUPPLIED WITH KEY)
 . MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
 . THIS DIMENSION EQUALS 2F FOR IN 90° INCREMENTS

- 5809US/UZ MOUNTING STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

COMMENTS: FRAME SIZE: P.O. NO.:_ CUSTOMER:

Ŧ.:

MOTOR MODEL NO .:

VOLTAGE:

RPM(SYN.):

TAG NO's.:

PRODUCT TYPE: TEFC EQP III, EPACT, & HIGH EFFICIENCY

TOSHIBA INTERNATIONAL CORPORATION

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

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

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

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CERTIFIED PRELIMINARY

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SQM	
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RO1	



Issued Date	6/28/2024	Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: F5006FLG3BMH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
500	373	6	1190	5810US	460	60	3	591
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	-		40 C

Load	HP kW		HP kW Amperes		Efficiency (%)	Power Factor (%)	
Full Load	500.00	372.9	591	95.7	82.8		
¾ Load	375.00	279.6	455	95.4	80.8		
½ Load	250.00	186.4	332	94.5	74.5		
1/4 Load	125.00	93.2	205	91.4	62.4		
No Load			190.3		3.2		
Locked Rotor			3572		24.7		

Torque						
Full Load	Full Load Locked Rotor Pull Up B					
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
2207	160	115	210	413.91		

Safe Stall	Safe Stall Time(s)		Bearings*		Approx. Motor Weight	
Cold	Hot	Pressure dB(A) @ 1M	Dearings		Approx. Motor Weight	
oolu	Cold		DE	NDE	(lbs)	
25	12	-	6320C3	6320C3	6120	

*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	6/10/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		



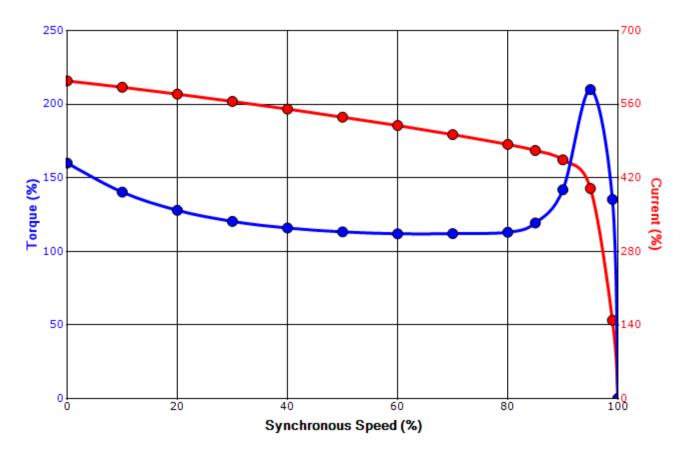
Issued Date	6/28/2024	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: F5006FLG3BMH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
500	373	6	1190	5810US	460	60	3	591
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	-		40 C
Locked Rotor	Rotor wk ²				Torque			
Amps	Inertia	Full Load	Locked	Rotor	Pull Up)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%)		(%)		(%	%)
3572	413.91	2207	16	0	115		2	10

Design Values





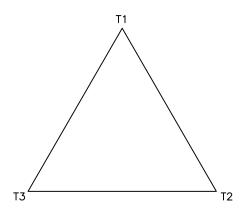
Customer	wk² Load Inertia (Ib-f	2) -
Customer PO	Load Typ	е -
Sales Order	Voltage (%	6) 100
Project #	Accel. Tim	е -

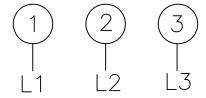
Tag:

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.

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 0



Issued Date:	6/28/2024	Transmit #:	
Issued By:	dschoeck	Issued Rev:	

SPARE PARTS LIST*

Model: F5006FLG3BMH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
500	373	6	1190	5810US	460	60	3	591
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	-		40 C

 Bearings DE
 6320C3 / 100BC03J3OX

 Bearings NDE
 6320C3 / 100BC03J3OX

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

Other than the grease used for regreasable bearings and the oil used for oil-lubricated bearings, Toshiba advises that there are no "use" parts. The only insurance spares that Toshiba suggests for these squirrel-cage induction motors are industry-standard and commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

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-1125 / 0		
Engr. Date	6/10/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		