

UNITS: INCHES

	_			_		
SIZE	FRAME	509US	509USS	SIZE	FRAME	
ы		24.9	24.9	Α		
2F	М	30.9	30.9	В		
F	MOUNTING	54.9	49.6	С		
Н	G	12.50	30.9 49.6 12.50 1.4 5.6	D		
BA		1.4	1.4	G	MOTOR	
BA N-W	JAHS	5.6	5.6	J		
<	SHAFT EXTENSION	4.8	4.8	\overline{x}	DIMENSIONS	
Π	NOISN	22.3	22.3	Μ	S	
R		25.6	25.6	0		
S	KEY SEAT	EY SE	24.9 30.9 54.9 12.50 1.4 5.6 4.8 22.3 25.6 24.9 4.4	4.8 22.3 25.6 24.9 4.4	Р	
S3	ΔŢ	4.4	4.4	⊣		
SJ	3	4.00 23.8 1	4.00 23.8 1	AA		
	BEARINGS	23.8	23.8	ΑB		
SO	Š	18.7	8.7	AC	CC	
WEIGHT	MAX	15.7	15.7	ΑE	CONDUIT	
SHT	MUM	8.7	8.7	AF	вох	
		15.7	15.7	ΧL		
		11.5	11.5	×		

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 8.50
 FOR US AND S x S x 3.00 FOR USS
- MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME OPPOSITE ROTATION AVAILABLE ONLY BY (MOTOR SUPPLIED WITH KEY)
- CONNECTION CHANGE

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

픇

MOTOR MODEL NO .:

VOLTAGE:

RPM(SYN.):

Hz:

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

509USS 509US

10.00 10.00

28.00 28.00

0.94 8.5 0.94 8.5

10.13 | 9.88 | 3.375 | 2.880 | 0.875 | 8.50 4.75 | 4.50 | 2.375 | 2.021 | 0.625 | 3.00

6313C3 6313C3

6320C3

6320C3

3200 lbs. 3200 lbs.

TAG NO's.:

COMMENTS:

TOSHIBA INTERNATIONAL CORPORATION

HORIZONTAL FOOT-MOUNTED 3 PHASE INDUCTION MOTOR OPEN DRIP-PROOF ASSEMBLY

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE

DATE:

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

×

PRELIMINARY

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

AUX. BOX

AUX. BOXES)

VISIT OUR WEBSITE AT: www.toshiba.com/ind

X T
Ø
44
<u> </u>
M



Issued Date 1/5/2021		Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: F8001VLG3BM

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
800	597	2	3570	509USS	460	60	3	880.48
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
ODP	12	F	1.15	CONT	96.2	-	Н	40 C

Load	HP	kW	Amperes Efficiency (%)		Power Factor (%)
Full Load	800	596.6	880.4	96.4	88.2
¾ Load	600.00	447.4	682.0	96.3	85.6
½ Load	400.00	298.3	498.1	95.6	78.7
1/4 Load	200.00	149.1	304.1	93.0	66.2
No Load			256.3		
Locked Rotor			6484.7		26.0

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
1177	220	190	380	108.14		

Safe Stall Time(s)		Sound	Bearin	Approx. Motor Weight	
Cold	Cold Hot Pressure dB(A) @ 1M		DE		
11.4	2.5	-	6313C3	NDE 6313C3	3385

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

Motor Options: Product Family:ODP 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	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1			
Engr. Date	4/1/2015	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



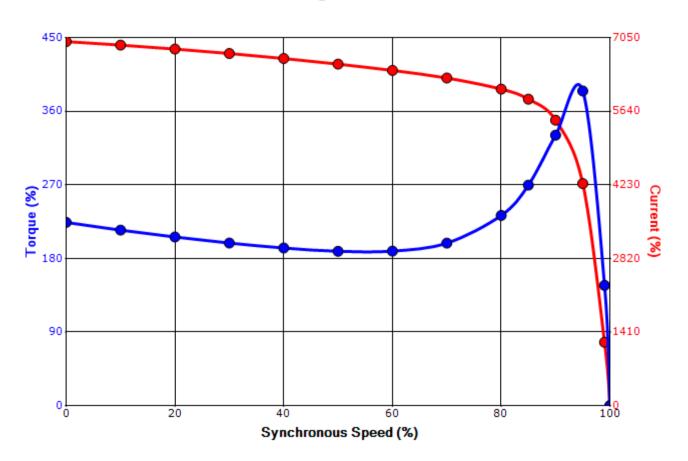
Issued Date 1/5/2021		Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: F8001VLG3BM

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps	
800	597	2	3570	509USS	460	60	3	880.48	
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)	
ODP	12	F	1.15	CONT	96.2	-	Н	40 C	
Laskad Datas	Rotor wk²	Torque							
Locked Rotor Amps	Inertia	Full Load	Locke	Locked Rotor		Pull Up		Break Down	
Allips	(lb-ft²)	(lb-ft)	(%)		(%)		(%)		
6484.7	108.14	1177	220		190		380		

Design Values





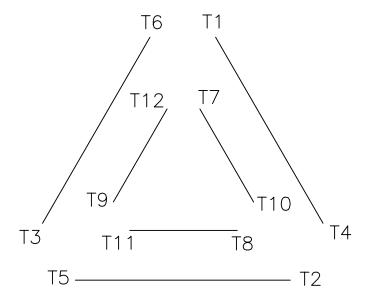
Customer	wk² Load Inertia (lb-	(t²) -
Customer PO	Load Ty	pe -
Sales Order	Voltage	%) 100
Project #	Accel. Ti	ne -

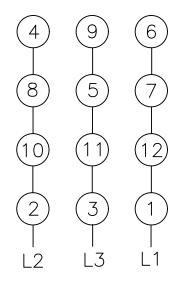
Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1		
Engr. Date	4/1/2015	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019		

Motor Connection Diagram 12 Leads Single Voltage





Switch L1 and L2 to reverse rotation

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



Issued Date	1/5/2021	Transmit #	
Issued By	dschoeck	Issued Rev	

SPARE PARTS LIST*

Model: F8001VLG3BM

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
800	597	2	3570	509USS	460	60	3	880.48
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
ODP	12	F	1.15	CONT	96.2	-	Н	40 C

 Bearings DE
 6313C3 / 65BC03J3OX

 Bearings NDE
 6313C3 / 65BC03J3OX

*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	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 1		
Engr. Date	4/1/2015	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019		