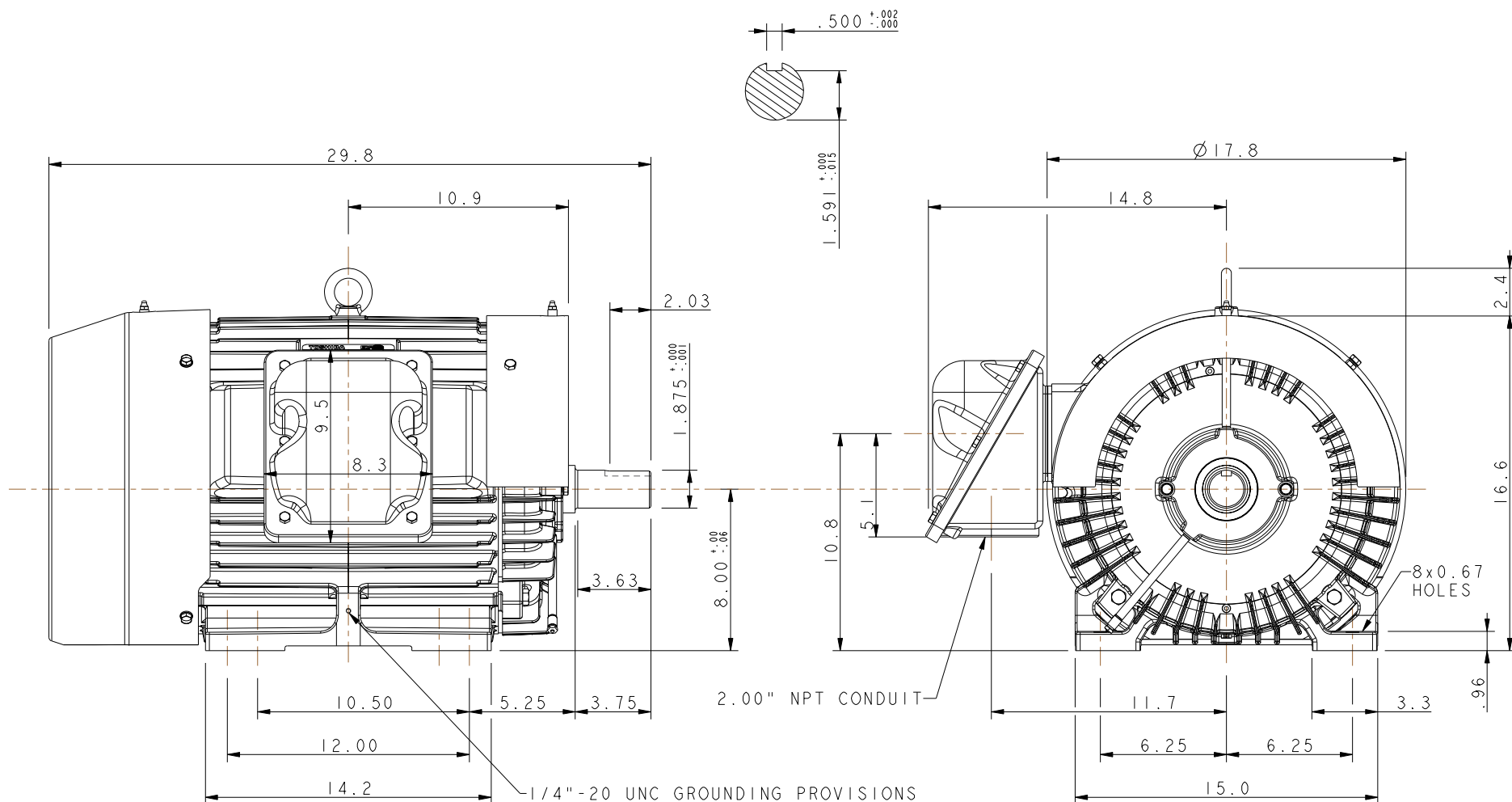




- NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
 2. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 3. KEY DIMENSIONS EQUAL 0.500" x 0.500" x 2.00" (MOTOR SUPPLIED WITH KEY)

UNITS: INCHES

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS CERTIFIED.

320TS TEFC FRAME F1 ASSEMBLY

MDSL082-06

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

.X .1
.XX .03
.XXX .005
.XXXX .0005

MAXIMUM MOTOR WEIGHT

651 lbs.
295 kgs.

1 ADDED KEY DIMENSIONS
0 FIRST ISSUE

NO REVISION

S. CLANCY 08/10/12
N. MOMIN 01/20/11

DRAWN BY DATE CHECK

EQPGlobal 841
XT SERIES

DRAWN BY: N. MOMIN
CHECK BY:
APPROVED BY:

www.toshiba.com/ind

TOSHIBA INTERNATIONAL CORPORATION Industrial Division / Houston Motor Plant SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS	INDEX	MPCF-1033
	SHEET NO.	1 of 1
	ISSUED	11/08/96
	SUPERSEDES	10/06/95
	REVISION	1
	WRITTEN BY	R. EVANS
	APPROVED BY	<i>Jay Bugbee</i>

Customer Tag:

CUSTOMER:

TIC SR No.:

Customer PO:

MOTOR NAMEPLATE DATA				
H.P.: 50	VOLTS: 460	3 Ø / 60	Hz	S. RPM: 3600
FRAME: 326TS	ENCL: TEFC	FLAMPS: 58		FLRPM: 3540
FORM: FCK1	S.F.: 1.15	NEMA DESIGN: B		INSUL CLASS: F
TYPE: TKKH	AMB.: 40C	CODE: G		DUTY: CONT.
MODEL No.: 0502XDSB41B-P		kW: 37		Serial No.:
NOM. EFF.: 93.0	MIN. EFF.:	P.F.: 87.5		

AMPERAGE	TORQUES	** BEARINGS:
Locked Rotor: 362	FULL LOAD (lb-ft.): 74.2	Drive End: 6312C3
	LOCKED ROTOR (%): 250	Opposite Drive End: 6312C3
	BREAK DOWN (%): 263	

EFFICIENCY (%)	POWER FACTOR (%)
FULL LOAD: 93.0	FULL LOAD: 88.2
3/4 LOAD: 92.2	3/4 LOAD: 85.7
1/2 LOAD: 90.2	1/2 LOAD: 80.5

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT. * TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12.43 OR -20.40. ** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).
--

CERTIFIED BY:
DATE:

TOSHIBA INTERNATIONAL CORPORATION Industrial Division / Houston Motor Plant SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS	INDEX	MPCF-1033
	SHEET NO.	1 of 1
	ISSUED	11/08/96
	SUPERSEDES	10/06/95
	REVISION	1
	WRITTEN BY	R. EVANS
	APPROVED BY	<i>Jay Bugbee</i>

Customer Tag:

CUSTOMER:

TIC SR No.:

Customer PO:

MOTOR NAMEPLATE DATA				
H.P.: 50	VOLTS: 380	3 Ø / 50	Hz	S. RPM: 3000
FRAME: 326TS	ENCL: TEFC	FLAMPS:		FLRPM: 2920
FORM: FCK1	S.F.: 1	NEMA DESIGN:		INSUL CLASS: F
TYPE: TKKH	AMB.: 40C	CODE: G		DUTY: CONT.
MODEL No.: 0502XDSB41B-P		kW: 37		Serial No.:
NOM. EFF.: 91	MIN. EFF.:	P.F.: 88.0		

AMPERAGE	TORQUES	** BEARINGS:
Locked Rotor:	FULL LOAD (lb-ft.): 0.0	Drive End: 6312C3
	LOCKED ROTOR (%):	Opposite Drive End: 6312C3
	BREAK DOWN (%):	

EFFICIENCY (%)	POWER FACTOR (%)
FULL LOAD: 92.8	FULL LOAD: 87.5
3/4 LOAD: 93.7	3/4 LOAD: 85.7
1/2 LOAD: 93.8	1/2 LOAD: 80.5

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.	
* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12.43 OR -20.40.	
** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).	

CERTIFIED BY:
DATE:

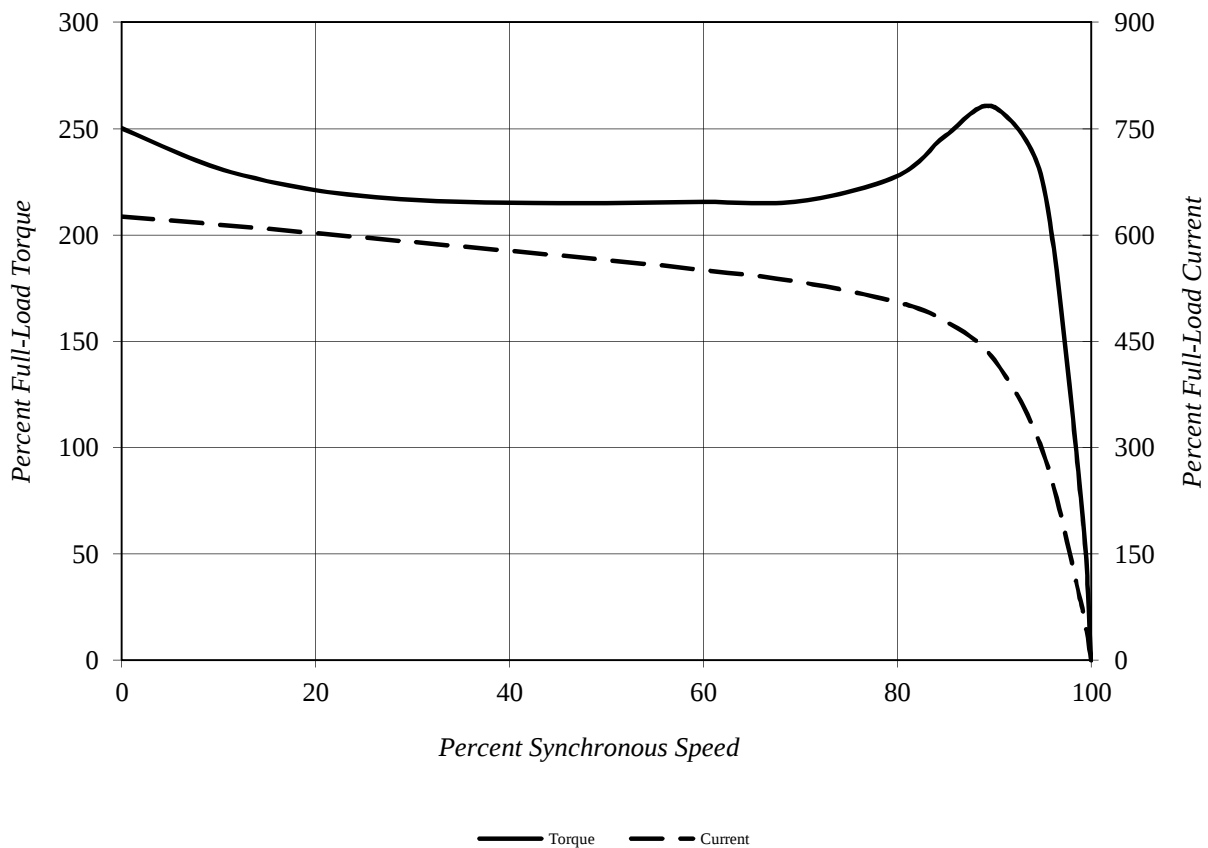
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0502XDSB41B-P			FLAmps:	58
Enclosure:	TEFC	Voltage:	460 V	Frame:	326TS
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	50	Rotor Inertia:	6.4 lb-ft ²	Date:	8-Aug-2011
FLRPM:	3540	Load Inertia:	N/A	File:	KH2050

Locked Rotor Amps:	363	Load Type:	N/A
Locked Rotor Torque:	250%	Starting at:	N/A
Breakdown Torque:	260%	Accel. Time:	N/A
Rated Torque:	74.2 lb-ft		

Design Values



Comments: _____

D.E. Curve #: _____

Prepared by: Van Truong

Checked by: _____

TOSHIBA

Reliability in Motion

TOSHIBA INTERNATIONAL CORPORATION

INDUSTRIAL DIVISION

PO BOX 40906

HOUSTON TX 77240

(713) 466-0277

(800) 231-1412

FAX (713) 466-8773

SPARE PARTS (RECOMMENDED)

OTHER THAN THE GREASE USED FOR RE-GREASABLE 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 COMMERCIALY AVAILABLE ANTI-FRICTION BEARINGS, AS NOTED BELOW.

MOTOR COMPONENTS (SUCH AS TERMINAL BOXES, FAN COVERS, MACHINED PARTS) ARE AVAILABLE UPON SPECIAL REQUEST. IN THIS CASE, PLEASE ADVISE OUR ORDER ENTRY DEPARTMENT THE MODEL AND SERIAL NUMBERS (FOUND ON THE MOTOR NAMEPLATE) , AND A DESCRIPTION OF THE COMPONENT REQUIRED. THEY WILL THEN FURNISH THE CURRENT PART NUMBER, PRICE AND AVAILABILITY.

(NOTE: OUR INTERNAL PART NUMBERS ARE SUBJECT TO CHANGE WITHOUT NOTICE, AND ARE NOT PUBLISHED).

PLEASE ADVISE IF YOU HAVE ANY QUESTIONS.

CUSTOMER:

PURCHASE ORDER #

Customer Tag:

TOSHIBA FILE #

MODEL # **0502XDSB41B-P**

HP / RPM / ENCL / FRAME: **50** / **3600** / **TEFC** / **326TS**

DRIVE END BEARING: **6312C3**

OPPOSITE DRIVE END BEARING: **6312C3**

Prepared By:

Date:

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.